



HIGH MACH

Serving the World's Premier Flight Simulation Test Center



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AEDC workers react to landing of NASA's Mars Science Lab

By Philip Lorenz III
Aerospace Testing Alliance

As news broke of NASA's Mars Science Laboratory (MSL) "Curiosity" rover's successful landing on the "Red Planet" Aug. 6, a number of people affiliated with the Arnold Engineering Development Complex (AEDC) were paying close attention to the story.

"Curiosity" is the most highly advanced, mobile robot with the heaviest overall payload ever sent to another planet to investigate Mars' ability, both past and present, to sustain microbial life.

AEDC's role in supporting the MSL program has included evaluating the aerothermal loading of the heat shield at the complex's Hypervelocity Tunnel 9 facility in Silver Spring, Md., and assessing thermal protection system material candidates for the MSL's heat shield at the complex's central location in Tennessee. In addition, NASA and AEDC's engineers tested the MSL's full-sized parachute in the world's largest wind tunnel at National Full-Scale Aerodynamic Complex (NFAC) in California.

AEDC Hypervelocity Tunnel 9 Director Dan Marren said he takes great pride in MSL's successful landing, considering AEDC's role in contributing to the program on several fronts.

"AEDC has provided aerothermal char-

acterization of the heat shield design at our Hypervelocity Wind Tunnel 9, material characterization in Arnold's arc jet facilities in Tennessee, and parachute testing at full scale in AEDC's National Full-Scale Aerodynamic Complex, located at NASA's Ames Research Center in Moffett Field, Calif.," Marren said. "NASA and the Air Force maintain a unique partnership when it comes to research that is in both our interests."

AEDC's Arc Heater facilities

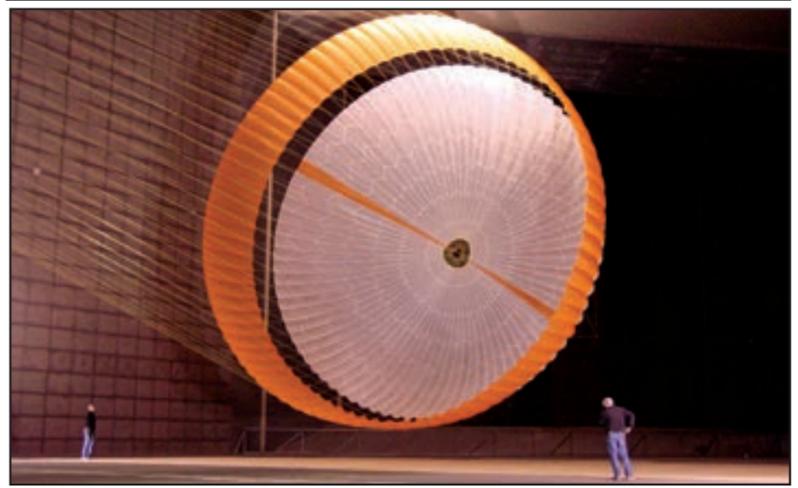
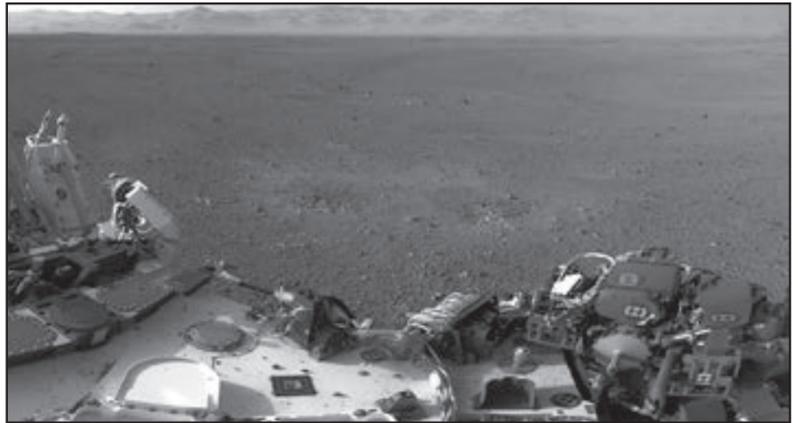
Mark Smith, Aerospace Testing Alliance's senior engineer and scientist at AEDC's Space and Missiles Systems Project Section, oversaw testing done on the MSL's aerothermal protection material candidates at AEDC's H2 arc heater facility in 2007. He said it was a privilege to play a role in supporting NASA on such a milestone project.

"The AEDC H2 [test cell] provided some very high shear test conditions which were not available at [NASA] Ames, and that's why they decided to do some testing here at AEDC."

Smith said the testing proved to be more productive than anyone anticipated.

"As it turned out, their primary candidate material for the MSL heat shield was giving questionable results at some

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The mosaic image at top shows part of the left side of NASA's Curiosity rover and two blast marks from the descent stage's rocket engines. The images that were used to make the mosaic were obtained by the rover's Navigation cameras Aug. 7. AEDC facilities were used to test a number of Curiosity's systems, including the parachute used in its descent. (Top photo provided by NASA/JPL-Caltech; bottom photo provided by NASA/JPL and Pioneer Aerospace Corp.)

Welsh 'humbled' to serve as Air Force chief of staff

By Tech. Sgt. Shawn J. Jones
Air Force Public Affairs Agency

JOINT BASE ANDREWS, Md. (AFNS) – The Air Force chief of staff flag passed to the service's 20th chief in a ceremony here Aug. 10.

Gen. Mark A. Welsh III, a 36-year Airman, stepped into the position, taking over for Gen. Norton Schwartz, who also retired from the Air Force during the ceremony.

"Mark is respected throughout the Air Force for his exceptional leadership and ability to connect with Airmen," Secretary of the Air Force Michael Donley said.

Raised in an Air Force family, Welsh said he found a role model in his father, a decorated combat pilot.

"Today, I think he'd be proud of me," Welsh said. "And any day a kid can make his dad proud is a great day."

Welsh emphasized the need for Airmen to understand the importance of the other services in joint operations, but also said Airmen shouldn't underestimate the combat capabilities of their own service in winning today's fight.

"No one else can bring what we bring to the fight, and any real warfighter knows



Gen. Mark A. Welsh III addresses the audience after being sworn in as the 20th Air Force chief of staff during a ceremony at Joint Base Andrews, Md., Aug. 10, 2012. Prior to his new position, Welsh was the commander of U.S. Air Forces in Europe. (U.S. Air Force photo/Senior Airman Christina Brownlow)

that," he said. "Don't ever doubt yourself or this service."

Welsh also addressed his stance on issues affecting the well-being of Airmen.

"When it comes to Airman resiliency,

suicide prevention, and sexual assault prevention and response, I believe you're either part of the solution or you're part of

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AEDC, ERPUD sign long-term gas contract

By Patrick Ary
Aerospace Testing Alliance

AEDC has decided to expand its current natural gas supplier's role and responsibility for the safe and reliable delivery of natural gas.

On July 1 the Elk River Public Utility District (ERPUD) signed a new 10-year, \$35 million contract with the government for natural gas, operations and maintenance of pipelines to AEDC and now an expanded operation supplying gas through an ERPUD-replaced distribution system. The government previously owned those lines and ATA, the operating contractor at AEDC, previously operated and maintained them.

The new piping replaced aged piping that needed upgrades. All valves, equipment, meters and connections were upgraded. AEDC points of delivery were reduced and connections to abandoned

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NFAC team conducts 'game-changing' technology test for NASA

By Philip Lorenz III
Aerospace Testing Alliance

AEDC's National Full-Scale Aerodynamic Complex at Moffett Field, Calif., is the site of an ongoing pioneering test campaign supporting NASA's Hypersonic Inflatable Aerodynamic Decelerator (HIAD) project.

HIAD, described as a round, stacked series of "high-tech inner tubes," is under development as a next generation decelerator, which would replace the conventional rigid heat shields currently used for vehicles entering a planetary atmosphere. This advanced entry technology may be used in the future for manned exploration missions.

The objective of the test is to subject a fully-deployed model of the HIAD to simulated planetary atmospheric aerodynamic entry loads, according to Stephen

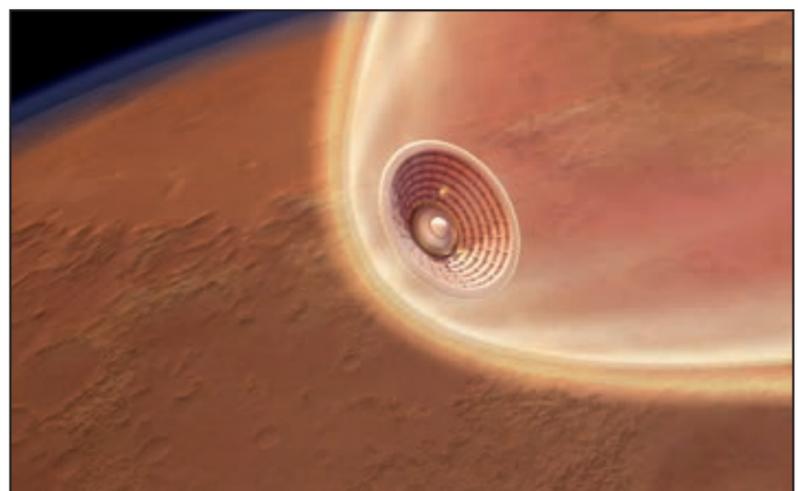
Lee, NFAC's engineer for the test.

"This is the first time a large scale, mission relevant-sized inflatable will have been tested in a wind tunnel," he said. "It's a very neat project."

The HIAD testing at NFAC has been designed to determine the test article's structural integrity and ability to withstand tremendous loading.

"We're assessing the structural response of the inflatable to dynamic load testing for a three-meter and six-meter HIAD so we can compare it to our modeling predictions," said Anthony Calomino, who serves as the principal investigator for Flexible Systems Development, based at NASA's Langley Research Center in Hampton, Va. "The test article is a Kevlar fiber reinforced 60 degree sphere cone

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This is an artist's concept of NASA's Hypersonic Inflatable Aerodynamic Decelerator (HIAD) showing the atmospheric entry of a spacecraft. (NASA artwork)

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HIGH MACH

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- Demonstrate the highest integrity and ethical standards
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- Deliver professional and technical excellence
- Nurture, enable and treat people fairly
- Align with customer goals and objectives
 - Use disciplined and innovative processes
- Continually improve in all that we do

Volunteers: extending a helping hand, ear

By Capt. Martha L. Petersante
376th Air Expeditionary Wing Public Affairs

TRANSIT CENTER AT MANAS, KYRGYZ-STAN – Volunteerism. All of the services define this word slightly different; some incorporate this concept into their core values, but all have this belief intertwined into in their fundamental guiding principles. It's not uncommon to see service members exhibiting this trait in a myriad of ways, both at home station and in a deployed environment.

But what motivates a person to put something above themselves, be it a cause, a belief or another person? Are we all driven to do this at some level?

I pondered those questions as I boarded our transportation to travel into Bishkek on a trip destined for a local women's crisis center and shelter. Here, I had the opportunity to see some of the Transit Center at Manas' volunteers out in full force, forging partnerships within the local community, one smile at a time.

Even though a language barrier existed, that didn't stop this excited group of Airmen from taking time out of their busy daily schedules to travel to the center and identify ways to help by volunteering.

The group, a melting pot of jobs, ranks and ages, first stopped at a local grocery store to purchase food and other basic supplies for the shelter residents. I learned

this is just part of "the routine" and a standard practice when they visit. The group often times calls ahead to see what the residents are in need of – today it was diapers, personal hygiene products, milk and rice.

Bags loaded, the group travels to the crisis center, which is currently under renovation. Experts in the fields of construction (specializing in plumbing and electrical) and contracting quickly take charge and begin to talk to the local contractor and ensure the project is moving along smoothly. Of course, the team identifies that there is more they can do, such as yard work to facilitate an area for children to play outside.

When can we start? How quickly can we get a team together? These common questions fly around the room as the group plans out its next visit not even half-way through this visit.

This drive to help doesn't stop at coordinating a group to remove weeds and underbrush, its providing an ear just to listen or a friendly smile to someone who needs it as well. The group members, some with degrees or experience in social work or counseling, sit down with residents at the shelter; the facility manager for the house, which is a temporary home to victims of human trafficking, domestic violence or sexual abuse, welcomes



Volunteers from the Transit Center at Manas, Kyrgyzstan speak with the facility director for a local women's shelter during a recent outreach trip. The volunteers took time to meet with the shelter staff and residents to build and strengthen partnerships between the Transit Center and the local community. (U.S. Air Force photo/Capt. Martha L. Petersante)

the group into the humble facility. Volunteers are given a tour and are immediately working to see how they can make a difference by either providing blankets, cots or other basic necessities to the residents.

They meet with John*, a victim of human trafficking. Though he does not speak any English, and the group relies on a translator to communicate, a simple nod or gestures allow them to communicate with him. The group proves that even if you only have a smile to offer, it really does open the door to trust and understanding. But what makes this group give up their time to work with

someone who has been through such a horrific experience?

The ideal they are working with is to help him better himself and supporting a cause they believe deeply in. Some want to enter this type of work when they leave the military service, while others just want to find a way to make difference, if even for short amount of time. It was clear that no matter what the motivation; volunteerism is engrained in their guiding principles.

To say that volunteerism, something that all of us may do just a little differently, but in the end truly betters everyone around us is an under-

statement. I have learned that it is the road to much more – to forming connections at the human level, to opening the door to learn about someone, and to improving one's self as well.

So, look around and find something that you are passionate about.

Volunteer and get involved in your local community, at home or deployed.

Yes, it may allow for your deployment to pass quicker, but perhaps more importantly, put a smile on the face of someone who may be facing an extremely tough time.

**Name has been withheld to protect the privacy of the individual.*

Help arrives in my darkest hour – and stays

By Master Sgt. Kevin Wallace
100th Air Refueling Wing Public Affairs

ROYAL AIR FORCE MILDENHALL, England (AFNS) – I want the nightmares to stop!

That's one thing I told Dr. Jeffery Peterson, a 48th Medical Operations Squadron clinical psychologist, when I went to see him last year.

I admit the visit wasn't voluntary.

Just before leaving Afghanistan in May 2011, I had to accomplish an online post-deployment health assessment and was flagged by many of my responses. I had to see Peterson my third day home. I felt our encounter was routine, but optimistically routine.

While downrange I was involved in several close-range firefights, as well as living in constant threat of the near-daily attacks we repelled.

I was notified that I had to do yet another PDHA last August. What followed absolutely blew my mind!

After submitting the PDHA, I stopped by a coworker's office to talk briefly and returned to a ringing phone.

A member of the 48th Medical Group staff was calling me merely 21 minutes after pressing the final mouse click and submitting the PDHA.

I was amazed at how fast they reached out to me.

I was flagged again and scheduled to see Peterson that same afternoon. I honestly dreaded having to go 'talk about my problems,' again but was truly impressed at how the medical system was working like a well-oiled machine. The 48th MDG staff monitored my progress as if I were their only patient.

Once more, Peterson was very positive and he seemed exceedingly concerned about complications in my Purple Heart medal approval. Since then, he saw my Purple Heart come to fruition and has been in routine contact with me. I also received comprehensive treatment from another 48th MDG psychiatrist and Landstuhl Regional Medical Center in Germany.

Despite my care moving from the family practice clinic to the mental

health clinic, Peterson has kept in repeated contact with me. It's more than obvious, he cares.

Top-care isn't limited to Peterson either.

Dr. Paul West, my psychiatrist, goes well above and beyond, whenever I need a listening ear or professional advice.

Furthermore, the Air Force assigned me to Tom Sansone, a Wounded Warrior counselor at the Air Force Personnel Center.

Sansone has been involved in all aspects of medical care, and has called me at home and at work dozens of times. He's an amazing counselor.

The truth is I never wanted to see Peterson, West, Sansone or the other medical staff. I didn't volunteer, the Air Force re-deployment system forced these people into my life, but I'm sure glad it did.

Luckily, many Airmen won't see lives taken first hand, much less take human lives or lose close friends to the enemy. Yet, others will. For those people, there's help.

For service members thrown right into the mix of the darkest aspects of war and inhumanity, I hope you fight well and

stand your ground, my brothers. I hope you keep our enemies at bay and keep the fight on foreign soil. Rest assured, as I now know, there are people here at home who care.

For me that was my wife, the Air Force Wounded Warrior Program and the 48th MDG.

Through my rants and despair, my anger and sadness, my wife has always been there. Still, there are some things I could never talk to her about; who'd want to put the worst on the ones they love?

In those times and for those subjects, I have professionals at nearby RAF Lakenheath.

I'd be lying to say I always had complete confidence in our medical system – I used to have my doubts. But no longer; now I have full faith that the system works and the professionals care.

I'll permanently change station to a stateside base next month, and the professionals who cared for me at RAF Lakenheath will become people of my past. I admit that fact is troubling.

Yet, I've seen first-hand success of the Air Force medical system and the Air Force Wounded Warrior Program. I'll be in good hands wherever I PCS to – I'm a believer!

Action Line**Team AEDC**

I believe in free and open communications with our Team AEDC employees, and that's why we have the Action Line available. People can use the Action Line to clear up rumors, ask questions, suggest ideas on improvements, enter complaints or get other issues off their chests. They can access the Action Line in one of three ways: via the AEDC intranet home page, Action Line boxes at the base cafeterias and by calling 454-6000.

Although the Action Line is always available, the best and fastest way to get things resolved is by using your chain of command or by contacting the organization directly involved. I encourage everyone to go that route first, then if the situation isn't made right, give us a chance.

Col. Raymond Toth
AEDC Commander

Smoking Policy

1. The following revised AEDC smoking policy is effective immediately. Smoking is permitted solely in designated areas identified by a plastic "smoke genie." This receptacle is for the sole purpose of cigarette butt disposal. If there is no receptacle, you cannot smoke in that area. It is the responsibility of all smokers to clean up the area surrounding the receptacles for any cigarette butts on the ground. Smoking in government-owned vehicles is strictly prohibited. Personnel are allowed to smoke in their personal vehicles at any time. In case of inclement or cold weather, employees are encouraged to use their personal vehicles if a sheltered designated smoking area is not available nearby. Smoking areas will be held to the absolute minimum and will be located in low traffic, low visibility areas away from points of building ingress/egress and air intakes. A map of all authorized smoking areas is available on the AEDC web portal at https://lapro.arnold.af.mil/PORTAL/images/Smoking_area_map.pdf. Smoking near a facility in an area not designated on the map is prohibited and any smoking receptacles located in areas not shown on the map will be removed. All "smoking permitted" and "no smoking" signs will be removed unless specifically required by OSHA.

The fact a person smokes has no bearing on the number of breaks they may take. Breaks should be taken in accordance with the company/agency personnel policies that apply to all employees.

Regarding use of smokeless tobacco, containers of tobacco waste product, including sealed containers, must not be left unattended or disposed of in trash receptacles. Users of smokeless tobacco must flush tobacco waste down the toilet. Smokeless is strictly prohibited in conference room meetings and other areas, e.g. PMEL, where Air Force regulations specifically prohibit.

Due to the nature, appearance, and safety concerns of electronic cigarettes (also known as "e-cigs"), they are considered to be in the same category of tobacco products whose use is governed by Air Force Instruction (AFI) 40-102, Tobacco Use in the Air Force. Therefore, all rules stated above for tobacco products apply to electronic cigarettes.

2. Supervisors at every level will ensure this policy is followed. Disciplinary action is appropriate for repeated violations.

3. Updates to this policy will be made in the future to further align with Air Force guidelines.

4. This letter supersedes previous letter dated 28 October 2006, subject as above.

New instruction puts spotlight on standards, culture

By Tech. Sgt. Shawn J. Jones
Air Force Public Affairs Agency

JOINT BASE ANDREWS, Md. (AFNS)—When referencing fundamental standards, Airmen now have a single source: Air Force Instruction 1-1, Air Force Standards.

As one of the capstone acts of his 39-year career, Gen. Norton Schwartz, Air Force chief of staff, put his signature on the brand new instruction, which communicates in one document the required standards of conduct, performance and discipline expected of every uniformed Airman.

The instruction—the first and only to be signed and certified by the chief of staff—was preceded by Air Force Policy Directive 1, Air Force Culture, in which the secretary of the Air Force directed the chief of staff to develop and execute policy related to standards.

The new instruction is particularly noteworthy not because it offers many new standards, but because it consolidates many

of the standards that had been spread among many separate instructions, officials said. In a single document, the instruction conveniently summarizes the expected standards of conduct for uniformed Airmen.

The intention for the instruction is to serve as a compass, providing a convenient overview of standards while directing Airmen to other instructions where more detailed information may be found, officials said.

Having a one-stop shop for standards-related guidelines, while not unprecedented, has long been absent in the Air Force. In fact, the vast majority of the new instruction's initial content and structure were borrowed from the now outdated Air Force Regulation 30-1, Air Force Standards, which was not replaced in the early 1990s when Air Force instructions replaced Air Force regulations.

In December 2011, Schwartz directed the Air Staff to develop the new instruction.

Much of the heavy lifting related to coordinating and drafting

the instruction was performed by Scott Martin, a legal advisor on Schwartz's senior air staff counsel.

"We needed to capture and consolidate the existing Air Force standards," said Martin, a 23-year veteran who retired as a colonel in 2010.

From cover to cover, the instruction counts 27 pages, broken into three chapters.

The first chapter, the Air Force environment, focuses on topics such as core values, customs and courtesies, force structure and diversity.

According to the chapter overview, the Air Force environment "encompasses the actions, values and standards we live by each and every day."

The second chapter focuses on standards of conduct, including sections on professional relationships, ethics, drug and alcohol abuse, and government neutrality regarding religion.

The instruction's final chapter addresses standards related to dress and appearance, physical fitness and government housing.

Martin said that while he borrowed a lot from the old regulation, it was incomplete for today's Air Force since so much had changed in the past two decades.

"We updated it and brought it up to the 21st century to address contemporary challenges that Airmen face," he said.

Some of those 21st century updates include standards related to relationships on social media, the wingman concept, resiliency, sexual assault prevention and response, tattoos and body piercing, and the Joint Ethics Regulation.

Martin said he expected the instruction to become a valuable resource for educating today's Airmen.

"If you have a young Airman who's not quite getting it, this will be a great tool for a mentoring session," he said. "Every Airman should periodically review these standards of conduct to assure he is living up to what the Air Force expects of him every day."

(Editor's note: AFI 1-1, Air Force Standards, and AFPD 1, Air Force Culture, can be found on www.e-publishing.af.mil.)

Youth Program aligned under Community Center

Arnold Air Force Base's Services Branch is reorganizing to efficiently offer Youth Program family activities through the Services' Community Center.

Previously the Youth Program was a stand-alone program within Services offering events and a designated space with recreational activities and equipment.

Military families will still have opportunities to enjoy youth events and activities offered at Arnold. Family programs, including the Kids Fishing Derby, Easter Egg Hunt, Daddy Daughter Dance and Miss AEDC Pageant, will be incorporated into the Community Center under the Arnold Lakeside Center (ALC). The programs will be under the direction of Melissa Hester, ALC programming manager.

"This decision to restructure was part of an Air Force-wide initiative that transforms how we do business," said Patrick Jackson, deputy chief of Services. "The goal is to focus on customer needs and create synergy between activities instead of continuing to operate as separate brick and mortar entities."

The privatization of base housing and increased off base opportunities changed usage patterns over the past few years. This decline in participation was a key factor in the decision to realign programming under the Community Center as well as seek partnership opportunities with local communities.

The Youth Program full-time employee will be retained at Arnold AFB and the recreational space will be repurposed.

Revamped program eases Airmen's transition to civilian life

By Joel Fortner
Air Force Public Affairs Agency

WASHINGTON (AFNS)—A redesigned program will help ease every Airman's transition to civilian life and help them better apply their military experience, Air Force officials said today.

The program is the first major overhaul of the transition assistance program for military members in nearly 20 years. The effort began in response to a call from President Barack Obama in August 2011 to ensure all service

AEDC workers take part in STEM workshop

By Patrick Ary
Aerospace Testing Alliance

AEDC workers are getting the tools they need to inspire young minds and encourage students to consider careers in engineering.

Seventeen AEDC and Aerospace Testing Alliance (ATA) employees and four local teachers visited the Challenger/STEM Center at the University of Tennessee-Chattanooga Aug. 2-3, where they took part in classroom activities that they can now share with students at local schools.

The goal of the workshop was to come up with a program to use in the communities surrounding AEDC, said complex STEM coordinator Jere Matty.

"We had visited several STEM centers, and we found that UTC had already put together a structured STEM program that hit most of the Tennessee and national STEM standards," Matty said. "We were trying to take advantage of that so we didn't have to come up with a program for our local area from scratch."

The Challenger Center is an informal science education facility that exists as a living memorial in honor of the Challenger crew and is designed to promote the areas of science, technology, engineering and math (STEM) to students. There are 48 Challenger Learning Centers located around the world.



Laura Guerin, left, a teacher at Good Shepherd School, watches as ATA's Raquel March and AEDC's Antonina York start up an electric car as part of a STEM workshop at the Challenger Center Aug. 3. Local teachers and AEDC employees spent two days at the workshop working on exercises they can take into classrooms to get more students interested in STEM-related careers. (Photo provided)

While the center at UTC normally has students come in and take part in interactive learning, they also hold workshops for teachers, said Center Director Thomas Patty.

"It's content strengthening and content enrichment for the teacher," Patty said. "And it's in areas that have already been aligned with the state's science

curriculum."

AEDC workers took part in more than a dozen classroom activities from the perspective of the student.

"They were a great group," said Challenger Center program facilitator Shane Berry. "They were troopers in all senses of the word, as far as we asked them from the beginning to pretend

like they were like fifth grade students—you know, put aside that big education that they have and all that knowledge that they have and see it from the child's perspective."

While there are dozens of teachers who come in for enrichment training at the center every

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sites were terminated. All this work ensures AEDC and ERPUD that natural gas supply and service for the next 10 years will be performed with the least amount of operational risk.

In 1997, the Secretary of Defense directed Department of Defense installations to study privatization of their utilities, citing the need to recapitalize or upgrade utility systems that had not competed well for funding. The Secretary of Defense also noted that utility operation and maintenance was not a core function of the DOD and would likely be performed more efficiently and effectively by industry or local utility suppliers.

AEDC began working with ERPUD in 2009 to privatize the AEDC natural gas system, after a competitive utilities privatization contract option was completed without an award.

AEDC went to the Air Force Civil Engineering Support Agency, which agreed to provide \$1 million in funding for the pipe replacement. ERPUD started replacing the pipes in June 2010. In September 2011, ERPUD took custody of the last segment of AEDC's natural gas lines, meaning the utility is now the owner of and responsible for operation and maintenance of the lines that

distribute natural gas on the complex's property.

ERPUD took ownership of the system section by section as it was replaced. Corey Rice, a project manager in AEDC's Civil Engineering Branch, said ERPUD's control of the line will alleviate concerns on behalf of the complex if a problem ever did occur. Elk River performs gas line maintenance and repair every day; according to Rice, ERPUD has much more experience when it comes to maintenance of a natural gas system. Moving out of the gas line business means the complex can focus more on the mission.

In addition to handing over the roughly 10,000 feet of line inside the fence, on July 1 AEDC signed a 10-year, \$35 million supply contract with ERPUD for natural gas.

"Moving to a 10-year contract is a good thing," Rice said. "A lot of people and time are involved in renewing a contract on an annual basis, both at AEDC and ERPUD; starting in 2013, AEDC will perform an annual review of the contract. This will take much less time and only involve one or two people. We will not need to renegotiate the contract with ERPUD until 2022. We now have a long-term contract. This is good

for ERPUD and AEDC."

ERPUD has provided natural gas to AEDC for decades, but the contracts were much shorter and ERPUD only controlled the lines up to the fenced-in portion of the complex. ERPUD general manager Mike Gundersen said he is happy to have a long-term contract with the utility's largest customer.

"This gives us some stability and helps us with some strategic and long-term planning," Gundersen said. "It's very helpful to know you have that commitment for an extended period of time."

AEDC uses natural gas for a wide variety of operations. It's piped into steam plants on base for heating and freeze protection. It also fuels dryers that provide dry air for testing at the Engine Test Facility and Propulsion Wind Tunnel Facility.

Bob Walker, technical director of AEDC's Civil Engineering Branch, said he is happy with the service ERPUD has provided.

"We've not had any major curtailments or incidents regarding their service to us," Walker said. "They have provided reliable and sustainable natural gas. We are also very happy to have successfully completed this part of our utilities privatization effort."



Before signing a 10-year contract with AEDC for natural gas, Elk River Public Utility District spent a year and a half replacing all of the aging natural gas lines to AEDC facilities such as the steam plant. The Air Force Civil Engineering Support Agency provided \$1 million in funding for the pipe replacement. (Photo provided)

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of the AMES [arc jet] conditions," he said. "AEDC really confirmed that it was not going to be satisfactory for the heavier MSL vehicle with its higher shear levels.

"As a result of these tests at Ames and AEDC, NASA decided to go with a thermal protection material under test for [the] Orion [Crew Exploration Vehicle] for MSL. It worked out well, and was a real boost for our team to be able to work with NASA on a planetary probe program like this."

AEDC's National Full-Scale Aerodynamic Complex

Evaluation and qualification of MSL's full-scale parachute decelerator system took place at NFAC, AEDC's remote site located in northern California, between 2007 and 2009. A series of full-scale wind tunnel tests were designed and conducted to qualify and validate the design and final flight articles.

MSL's Curiosity rover is unprecedented in its size, weight, and complexity

and as such requires an extremely large decelerator to slow its descent to the surface of Mars.

When fully inflated, the MSL parachute spans more than 50 feet across and reacts with more than 65,000 pounds of drag. Full-scale testing on flight-like articles was required to prove the design, materials and fabrication techniques were capable of surviving the rigorous mission requirements.

NFAC provided a uniquely suited test environment as the only wind tunnel facility in the world capable of testing such a large decelerator.

NFAC's drag scale is only capable of measuring up to 50,000 pounds, requiring NFAC to devise a new system for supporting the parachutes and measuring their drag.

Joe Sacco, NFAC's deputy director, served as the test director for the first test in the MSL series.

"We worked with John Perry, a NASA Ames design engineer, to come up with a great support structure

that the Ames shops could fabricate and [that] would handle 100,000 pounds of drag," Sacco said, referring to the process.

Sacco and the test team oversaw testing of several parachutes on this support structure, commenting that one of the final design assets was tested to nearly 97,000 pounds.

To qualify the parachute design for flight and verify the workmanship of the final assets, NFAC worked with Jet Propulsion Laboratory personnel to devise a test campaign wherein a single flight-identical parachute was deployed 10 times.

Justin McLellan, NFAC's Test Engineering Group lead, served as test director for several phases of the MSL test series.

"Three canopies were built from final design: the one that just landed Curiosity, one backup for the mission, and one to test here at NFAC. Our final test series with that canopy was flawless," he said.

Sacco and McLellan said they were impressed

with the seamless collective effort shown by the MSL test team throughout the test series.

Pat Goulding II, test director on the final verification test of the flight-lot asset, added that the test team of engineers and technicians from Jet Propulsion Laboratory, Pioneer Aerospace Corporation (the parachute supplier), Ames Research Center, and NFAC "displayed great synergy, flexibility and professionalism in adjusting to the test series' many challenges and finding ways to make the program a success."

Hypervelocity Tunnel 9

Regarding the aerothermal testing done at Tunnel 9, Lafferty, their technical director, said he also appreciates the ongoing partnership with NASA and the trust their team places in AEDC's workforce and the complex's unique testing capabilities.

He said the challenges facing NASA and AEDC with validating the design and materials under con-

sideration for MSL made the missions' success even more impressive.

"The Mars Science Laboratory is a multifaceted NASA project to land a very large rover on the surface of Mars – the largest one they've ever built," Lafferty said. "It's about the size of a VW Beetle in both wheel base and weight.

"We were involved with characterizing the aerothermal environment, or the aerodynamic heating to put it more in lay language, around the capsule that occurs during atmospheric entry into Mars' atmosphere."

Lafferty said the test helped NASA's engineers to better understand the aerothermal stresses the MSL would have to withstand to survive atmospheric entry and enable a safe landing on Mars. In 2006, Lafferty was working on that testing with Dr. Brian Hollis, who is now a senior technical lead in the Aerothermodynamic Branch at NASA Langley Research Center.

"We knew that the flow and the heat shield would be turbulent," Hollis said. "We needed the wind tunnel test facility where we could get a very high Reynolds number to get us turbulent flow data.

"AEDC Tunnel 9 fit the bill because...they've got a huge Reynolds number range that they can hit and that seemed the best place to go to get some data on turbulent heating."

Hollis also had praise for Tunnel 9 and their workforce, including Arnold Collier, the facility's lead engineer on the project at the time.

"[They have a] very professional organization with impressive capabilities," he said. "We got what we wanted for the money. It was a very good experience."

**NFAC** from page 1

with an inner polymer liner and it is covered by an insulated high temperature ceramic fabric. Both the three-meter and six-meter HIAD test articles are instrumented so we can monitor overall displacement, vibration, and pressure."

NASA says Hypersonic Inflatable Aerodynamic Decelerator technology could be used to help deliver cargo, or even people, to another planet or return them to Earth.

Inflatable technology could give NASA more options to explore planets on future missions, because it would allow a spacecraft to

carry larger, heavier scientific instruments and other tools needed for new discoveries. More near term, the technology could also be used to return payloads to Earth from the International Space Station or other low Earth orbit locations.

NASA Langley's Keith Johnson, the technical lead for Inflatable Structures and the scheduled tests at NFAC, said, unlike rigid aeroshells that are limited in size by the launch vehicle, an inflatable decelerator can be stowed, much like clothes vacuum packed inside a duffle bag. The

inflatable structure, covered by thermal protection system "skin," is deployed before the spacecraft enters the atmosphere.

"We envision going to a 10, 15 or 20 meter inflatable, the larger we make the inflatable, the higher capacity of payload we can deliver," he said. "We've also got some testing from a materials level and sub-component level. We're also developing dynamic simulation models that we're going to correlate to and a key part of that will be anchored with NFAC test results."

NFAC engineer Lee says

the test also has already presented some challenges because of the approximately 250 miles-per-hour airflow the HIAD has encountered in the wind tunnel.

"The flight article generates a lot of load," Lee said. "The peak loads we've been seeing are at the limit of the facility. That's one thing that we're keeping our eyes on, because clearly we don't want to damage the facility – it isn't very often we get to test these kinds of loads."

For more information about NASA's HIAD project, please go to www.nasa.gov/hiad.

WELSH from page 1

the problem,” he said. “There is no middle ground.”

Welsh also said the Air Force must shape the future and that will require innovative thinking and different approaches to problems, along with modernization.

Welsh was nominated by the president May 10 and confirmed by the Senate on Aug. 2.

In his previous position as the commander of U. S. Air Forces in Europe, he was in charge of Air Force activities in an area of operations covering nearly one-fifth of the globe.

Welsh, a 1976 graduate of the Air Force Academy, has served in numerous operational, command and staff positions, such as commandant of cadets at the U.S. Air Force Academy, vice commander of Air Education and Training

Command and associate director for military affairs at the Central Intelligence Agency.

“When I became a squadron commander, I felt excited. When I became a wing commander, I felt proud. When I became a major command commander, I felt privileged and a little bit old,” he said. “Today when I was sworn in as chief of staff of the Air Force, I felt humbled to be given the honor of leading its incredible Airmen.”

His experience includes nearly 3,300 flying hours, most of which came in the A-10 Thunderbolt II and F-16 Fighting Falcon.

As the ceremony ushered in a new chapter in Air Force history, it also served as the final chapter for Schwartz’s four years as the service’s senior uniformed leader and his more than 39 years of

military service.

Schwartz’s career began in 1973 after graduating from the Air Force Academy. He has logged more than 4,400 flying hours and participated in military operations in Vietnam, Iraq and Cambodia.

“Anyone looking for an example of Air Force core values need look no further than Gen. Norty Schwartz,” Donley said. “Thank you for your lasting contribution to our Air Force and the character and quality of your service.”

Defense Secretary Leon Panetta presented Schwartz with the Defense Distinguished Service Medal, which is awarded to service members who perform exceptionally meritorious service in a position of great responsibility.

The award citation highlighted his success in restor-



Secretary of the Air Force Michael Donley swears in Gen. Mark A. Welsh III as the 20th Air Force chief of staff, assisted by Welsh's wife, Betty, during a ceremony at Joint Base Andrews, Md., Aug. 10. (U.S. Air Force photo/Scott M. Ash)

ing excellence in the Air Force nuclear mission, his efforts to partner with joint and coalition teammates in support of operations world-

wide, modernizing the Air Force’s air and space inventories, and care for Airmen and families. Schwartz’s wife Suzie was also recognized for her devotion to Airmen and family support

programs.

“The Air Force has afforded us an honorable and rewarding journey for the entirety of our adult lives,” Schwartz said.

USAF Honor Guard ‘motivated’ during CSAF transition

By Senior Airman Lindsey A. Porter
11th Wing Public Affairs

JOINT BASE ANDREWS, Md. (AFNS) – Don’t move. Don’t move a single muscle.

Hours of drill and ceremony, dress rehearsal and uniform preparation have all come down to this.

Don’t move. All eyes are on you.

Standing sharp, crisp and motionless, in full U.S. Air Force Honor Guard service dress, you know how important a day like today is. This isn’t your first dog-and-pony show.

Today is different though. Today, you’ll be standing at attention, front and center, before some of the Air Force’s most-senior leaders. For 90 minutes, all eyes will be on you during the chief of staff of the Air Force’s transition ceremony at Joint Base Andrews.

This is what being a member of the 11th Wing and one of the world’s most-recognizable honor guard units is all about. Choosing to be a ceremonial guardsman in the U.S. Air Force Honor Guard means these Airmen have trained for a day like this since they

joined.

During the ceremony, Army Gen. Martin E. Dempsey, chairman of the Joint Chiefs of Staff, lauded the color guard and the two flights of motionless Airmen standing at ceremonial parade rest before him.

“I remember looking as good as they do now when I was a younger Soldier,” said Dempsey. “Well, maybe not that sharp.”

Dempsey wasn’t the only general to recognize the dedication of those Airmen. From the start of the transition ceremony until retired Gen. Norton Schwartz’s farewell speech, the color guard had stood at attention, holding their bearing.

“Before I begin, I’d like to request the color guard to go to parade rest,” said Schwartz, former Air Force chief of staff. “You’ve been at attention this whole ceremony. I know I’m retired, but I think I still have that power.”

With myriad rehearsals, performances, and more than 40 color team and honor guard qualifications under his belt, Senior Air-



The U.S. Air Force Honor Guard and U.S. Air Force Band perform a pass and review for the Air Force chief of staff transition ceremony at Joint Base Andrews, Md., Aug. 10. During the ceremony, Gen. Norton Schwartz retired from active duty and passed on the duty of Air Force chief of staff to Gen. Mark A. Welsh III. (U.S. Air Force photo/Senior Airman Perry Aston)

man Anthony Wagner, U.S. Air Force Honor Guard NCO of the color team, has built the confidence to lead his team through any type of situation – even a ceremony where the highest-ranking Air Force member makes impromptu requests. After hearing Schwartz’s instruction, Wagner’s voice echoed through the ceremony hangar as he commanded his team to parade rest.

Wagner and his fellow honor guardsmen weren’t endowed with this level of precision. For every ceremony, the members of the 11th Operations Group, to include the U.S. Air Force Band and Honor Guard, have prepared with training and rehearsals.

“Ceremonies like this don’t just happen,” said Master Sgt. Jack Whitfield, chief of staff of the Air Force

transition NCO in charge of ceremony. “Everyone with a key position has been handpicked to be here. The backbone of this entire mission is the honor guard and other 11th Wing Airmen. You may not see it on their faces, but everyone is very motivated to be here.”

Capt. Scott Belton, assistant director of operations for the U.S. Air Force Honor Guard, agreed.

“We are always training in the honor guard,” said Belton. “We do events like this all year round. This is my first transition ceremony, but one of the only differences from the average ceremony we do would be today’s pass and review.”

The role of the Air Force Honor Guard is to set the military standard, perfect its image and preserve its heritage.

PROGRAM *from page 3*

members are “career ready” when they leave the military.

Slated to begin service-wide in November, the current three-day, optional program will be expanded to five days. It has also been redesigned into a comprehensive, mandatory program that includes pre-separation counseling, a military-to-civilian skills review, a Veterans Affairs benefits briefing, financial planning support, job-search skills building, and individual transition plan preparation.

A pilot program was held July 9-13 at Joint Base San Antonio-Randolph, which allowed Departments of Defense, Labor and Veterans Affairs to test the initiative.

According to Secretary of the Air Force Michael Donley, the redesigned

program bolsters and standardizes the transition services that service members receive, prior to retiring or separating from the military, to make them employment ready.

“America’s Airmen have extraordinary technical expertise and world-class leadership skills that are in high demand,” Donley said. “Our goal is to provide Airmen leaving the service with a comprehensive transition assistance program that prepares them for life after the military.”

Chief Master Sgt. of the Air Force James Roy said the program is as good for the civilian sector as it is for Airmen.

“Employers are looking for educated, trained and experienced people like those who are separating from the Air Force,” he said. “This program will

help smooth the transition to civilian life for our Airmen.”

Under the old program, separating Guardsmen and Reservists were often left to their own devices. Roy said another benefit of this new program is the inclusion of the Total Force.

“We want to take care of all our Airmen, and this program does that,” he said. “No component of our Total Force deserves more help transitioning than another.”

By October 2013, three 2-day optional sessions on pursuing a technical certification, starting a business, or pursuing a higher educational degree will also be offered to Airmen.

For more information, contact your local Airman and Family Readiness Center or email af.aIsaa@pentagon.af.mil.

STEM *from page 3*

year, Patty said it was good to see engineering professionals who want to inspire young people to explore STEM-related careers. He also said they can bring a work-related perspective to the classroom.

“They not only can bring the content knowledge of the activities that they learned about but also share with the students the real-world expectations of what happens in the engineering world, in the Arnold engineering environment,” he said. “What they can expect to do or be doing while learning those activities at this basic level is so absolutely important and then from the teachers perspective, you’ve got some of the teachers out there having to teach math or science, and that may not be their

area of specialty. So to have someone who comes in and maybe has worked in that and studied in that area and really can grasp the concepts is great.”

Some who participated in the learning program say they now have a renewed interest in helping students get excited about a STEM-related career along with the tools they received at the Challenger Center.

“The STEM training I received gave me the push I needed to get involved with helping kids (and teachers) get excited about science, technology engineering and math,” said Greg Burt, a section manager in ATA’s Integrated Test and Evaluation Department. “I see so many kids ‘existing’ today ... nothing to motivate them to pursue engineering and science ... or any career field for that matter.

“Many graduate high school and then realize they need to make a decision on a career and

decide on something they

have not fully researched and are confused about what they want to do in a career,” he said. “If somehow we can reach students in the local areas and help motivate them to get excited about a technical field of study, then we have been successful.”

AEDC also received several teaching kits as part of the workshop.

The kits contain the tools to teach the lessons they learned at the Challenger Center and will be available to lend out either to local teachers or to complex employees that want to take them to a school.

Matty, who said he was impressed with the curriculum the Challenger Center had put together, believes everyone who attended the workshop now has the tools to pass on their knowledge to the next generation of aspiring young engineers and scientists.

“I am positive we can teach them what they taught us,” he said.

Hands-on training



Airman Dalvin Troublefield performs removal and installation of the tailhook damper on an F-15 Eagle while Airman Basic Jonathan Sanchez reads off step-by-step instructions at Sheppard Air Force Base, Texas, Aug. 1. They are part of the 362nd Training Squadron’s Fighter, A-10 Mission Ready Airmen Course. (U.S. Air Force photo/Frank Carter)

Combat training supports 21st century strategy

By Charles Ramey
Air Force Public Affairs

NELLIS AIR FORCE BASE, Nev. (AFNS) – As the nation winds down from a decade of combat operations in Afghanistan and Iraq, the Department of Defense is shifting its focus to the future and recently introduced new strategic guidance describing the projected security environment and key military missions for which the department will prepare.

“Our strategy review concluded that the United States must have the capability to fight several conflicts at the same time,” said Defense Secretary Leon E. Panetta while unveiling of the nation’s new defense strategic guidance Jan. 5. “We are not confronting, obviously, the threats of the past; we are confronting the threats of the 21st century. And that demands greater flexibility to shift and deploy forces to be able to fight and defeat any enemy anywhere.”

To meet 21st century challenges such as terrorism, cyber threats, anti-access/area denial environments and violent extremists, the Department of Defense relies heavily on airpower and joint interoperability to deter, deny and defeat aggression.

For more than 70 years, American airpower has stood as a cornerstone of success throughout of a wide-variety of military operations, and remained in the fight long after fighting ceased on the ground to enforce no-fly zones, move people and equipment, and provide intelligence, surveillance and reconnaissance. As technologies, tactics, techniques and procedures continuously evolve, realistic training ensures the combat air force maintains the edge in air, space and cyberspace.

“Over the past 10 years, we’ve been focused on counterinsurgency opera-

tions against an enemy with a reduced air capability,” said Maj. Gen. Mike Holmes, Air Force assistant deputy chief of staff for operations, plans and requirements. “With fewer units committed to combat operations, we’re able to begin refocusing on future threats and environments we might have to operate in.”

Exercises provide an opportunity for joint and coalition forces to train together and prepare for future contingencies. One of the most dynamic and realistic large force employment training exercises in the world is Red Flag-Nellis. With an enemy aggressor force, training range comprised of the most realistic peacetime threats in the world, and 12,000 square miles of air space, Nellis hosts three to four two- to three-week Red Flag exercises annually.

“Red Flag provides weapons system operators from around the globe the opportunity to integrate and achieve warfighter dominance,” said Col. Tod Fingal, commander of the 414th Combat Training Squadron “Red Flag.” “Participants operate in the most realistic contested and degraded operations environment that can be replicated anywhere in the world, and are evaluated on their ability to execute a variety of scenarios.”

Nearly 1,700 Airmen, Sailors, Marines and coalition forces from Colombia and the United Arab Emirates participated in most recent iteration of Red Flag at Nellis AFB July 16-27. Flying two missions daily, friendly forces managed a 60-aircraft mission package and opposed air, space, cyber and air defense threats to execute air interdiction strikes, combat search and rescue operations, SCUD hunts, location of high value targets,



A three-ship of F-16 Fighting Falcons from the 421st Fighter Squadron, Hill Air Force Base, Utah participate in Red Flag 12-4 July 20 over the Nevada Test and Training Range. The 421st FS prepares to deploy worldwide to conduct day/night air superiority and precision strike sorties employing laser-guided and inertially aided munitions during contingencies and combat. (U.S. Air Force photo by Airman 1st Class Daniel Hughes)

and defensive counter-air missions.

“The missions are conducted at a walk, run, sprint pace and each day is a reset,” Fingal said. “We ratchet up the level of intensity throughout the exercise and have a thinking adversary with a chairman who uses the latest intelligence to combine aggressor capabilities and produce a realistic and heavily integrated enemy threat. [Friendly] forces do suffer losses on combat missions, but the main goal of the exercise is to make the scenarios so challenging that any losses happen now in the training and learning environment versus a real-world scenario.”

As the enemy threat and technology has evolved, so has Nellis AFB. In 2005,

Air Combat Command established the 57th Adversary Tactics Group at Nellis in order to create an integrated enemy force for training audiences at Nellis and other exercises around the globe, and in 2011, space and cyber operations were formally incorporated into the exercise. Facilities at Nellis have also been upgraded in recent years to include a fully-operational combined air and space operations center and the Nevada Test and Training Range is working to upgrade its systems to better-prepare warfighters for emerging threats and support advanced aircraft such as the F-35.

“With air, space, cyber, command and control and intelligence, surveillance and reconnaissance assets

participating together in today’s Red Flag exercises, we have a fully integrated team who can cross-talk the issues being encountered in realistic battlespace and work together to solve problems and achieve tactical results,” Fingal said.

Although exercises such as Red Flag have continued throughout the events of the past decade, the Air Force sees their existence as opportunity to prepare to for the future.

“Exercises such as Red Flag give U.S. and coalition forces an opportunity to work together toward a common set of tactics and understanding of how we’re going to fight together,” Holmes said. “They allow us to think through how we would fight as a team in situations such as

anti-access/area denial environments where opposing forces are trying to keep us from reaching an area or are working to deny our ability to operate in the air or on the ground in a particular space.

“The United States must maintain a credible capability to carry out the missions we’re asked to do against improving and growing threats and systems,” Holmes concluded.

“The cheapest use of military systems is to deter a war from ever happening by being ready and having the ability counter an adversary’s systems and strategy. Training exercises ensure we are ready and able to focus on a broad range of missions and meet our nation’s strategic objectives.”

Everett receives safety award



Dave Everett, center, receives the AEDC Safety Achievement Award from ATA General Manager Steve Pearson and AEDC Commander Col. Raymond Toth during a recent ceremony. Everett, a plans and programs officer for the Arnold Police Department, was recognized for maintaining vigilance for any potential safety concerns. He also was recognized for helping develop a Craftsman Safety Card that serves as a handy safety reminder for tasks being performed, and for identifying and helping negate numerous hazardous conditions affecting driver safety on base. (Photo by Rick Goodfriend)

Air Force looks to put wings on enlisted retrainees

By Senior Airman Christina Brownlow
Air Force Public Affairs Agency

JOINTBASESANANTONIO-LACKLAND, Texas (AFNS) – Enlisted Airmen have the opportunity to earn a pair of wings and go fly, fight and win America's wars.

Air Force officials are looking for retrainees to become career enlisted aviators as flight engineers, aircraft loadmasters, flight attendants, and intelligence, surveillance and reconnaissance operators.

The duties and responsibilities of these positions call for Airmen to serve as crew members aboard many of the Air Force's aircraft.

"If you really want to travel around the world and see different things, you can do that as a career enlisted aviator," said Master Sgt. Matt Ardis, the career enlisted aviator in-service recruiter at the Pentagon.

For Tech. Sgt. Francis Camejo, who retrained as a C-17 Globemaster III loadmaster in 2009, the best part of being a career

enlisted aviator is directly contributing to so many Air Force missions.

"When you airlift over 5 million pounds of cargo and passengers per year without injuries or damage to equipment, you gain a sense of pride in your work," Camejo said.

In more than three years on the job, Camejo, who works with the 15th Airlift Squadron out of Joint Base Charleston, S.C., has participated in missions related to special operations, joint operations and humanitarian cargo deliveries to destinations all over the globe.

However, he said he gets the most satisfaction from delivering equipment to troops in combat and when he helps transport Airmen back to the U.S. after a long deployment.

"You immediately see the fruits of your labor through the faces of family members when you bring their loved ones home," he said.

Despite the selling points

of being an enlisted aviator, the career fields suffer from manning shortages year after year.

Ardis said there are a few reasons for the shortage. First, the Air Force does not force Airmen or new recruits into flying positions. Second, the standards for becoming a career enlisted aviator are significantly higher than most career fields. Finally, successfully completing formal training can be challenging for some new retrainees.

Ardis said Airmen who are interested in one of these career fields should brush up on the retraining process. Once the process begins, they need to stay on top of it, especially the medical portion, which calls for a flight physical.

"The physical is the long pole in the tent, especially if a waiver is involved," he said.

Airmen can also increase their chances of selection by familiarizing themselves with the retraining advisory, a document that details ca-



Staff Sgt. Lucas Crumpton waits for the "go" signal before an airborne insertion during Joint Forcible Entry Exercise Sept. 14, 2010, at Pope Air Force Base, N.C. The exercise is a training event held six times a year in order to enhance cohesiveness between the Air Force and Army by executing large scale, heavy equipment and troop movement for real-world contingencies. Crumpton is a C-17 Globemaster III loadmaster with the 535th Airlift Squadron from Hickam Air Force Base, H.I. (U.S. Air Force photo/Staff Sgt. Angelita M. Lawrence)

reer field vacancies. Then, they can apply for every position for which they qualify, Ardis said. The advisory can be found on the myPers website.

Airmen who are on their first enlistment can volunteer to retrain through the career Airman re-enlistment reservation system. New enlisted aviators are selected from the pool of qualified candidates based on enlisted performance reports, with

the most recent report being the most important. Rank and projected rank are also considered, with higher ranking Airmen more likely to be selected, all else being equal.

Those Airmen who have already completed at least one enlistment term may try to volunteer through the NCO retraining program.

Selected Airmen will attend the 14-day enlisted aircrew fundamentals course

at Joint Base San Antonio-Lackland, Texas. Upon graduation, they move on to their career field-specific training, survival training and then flight training.

Airmen looking to retrain into this career field can contact Master Sgt. Matt Ardis at cea.recruiting@pentagon.af.mil, 703-697-1717 or DSN 227-1717.

(Tech. Sgt. Shawn J. Jones contributed to this article.)

Program to improve IT core services achieves key milestone

By Patty Welsh
66th Air Base Group Public Affairs

HANSCOM AIR FORCE BASE, Mass. (AFNS) – An Air Force program that will save money, save energy and improve core information technology services, such as email, has recently met a significant milestone.

Hardware to consolidate four regional data processing centers into one area processing center has been delivered, installed and tested at Wright-Patterson Air Force Base, Ohio.

More than half of the Air Force Materiel Command information technology equipment housed at Wright-Patterson AFB

as well as at Tinker AFB, Okla., Hill AFB, Utah, Robins AFB, Ga., and other remote processing centers is past end of life, according to Laura Ervin-Cook, program manager.

"This increases the risk of catastrophic failure for critical mission support infrastructure and has resulted in an increase in the frequency and duration of service outages, which directly affect the Air Force mission," Ervin-Cook said. "In 2011, the Air Force chief information officer said his number one cyber priority was the AFNet migration, and he wanted it completed

by the end of 2012."

Another issue is that routed information would often have multiple routings, for example from Hanscom AFB to Robins AFB to Wright-Patterson AFB. Now the route is only one in and one out, which will help solve the latency and failure rates.

In addition to technical challenges, the cost of maintaining services hosted at multiple locations is considerable. Wright-Patterson AFB was chosen as the site of the area processing center because its current regional data center was already processing data for 37,000 Non-Secure Internet Pro-

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Tech. Sgt. Ryan Barkman, of the 611th Air Communications Squadron, performs a systems check on a rack-mounted server at Joint Base Elmendorf-Richardson, Alaska, in a file photo from June 13, 2011. The Air Force Life Cycle Management Center Cyber Infrastructure Division at Hanscom Air Force Base, Mass., worked to consolidate four data processing centers into one area processing center to improve reliability of core services and reduce costs. (U.S. Air Force photo)

AFLCMC commander Lt. Gen. C.D. Moore II outlines the way ahead

By Amy Rollins
88th Air Base Wing Public Affairs

WRIGHT-PATTERSON AIR FORCE BASE, Ohio

— In the first of several town hall meetings, Lt. Gen. C.D. Moore II, the inaugural commander of the new Air Force Life Cycle Management Center shared thoughts, themes, goals and challenges Aug. 1 at the Air Force Institute of Technology's Kenney Hall.

The center, which has 26,000 employees, was created as Air Force Materiel Command consolidated the number of centers from 12 to five.

AFLCMC stood up as an organization on July 9 and began incorporating directorates from former AFMC centers to achieve its current configuration on July 20. Although operations began immediately, Initial Operating Capability, or IOC, is scheduled to occur on Oct. 1 to align with the start of the new fiscal year.

AFLCMC provides "cradle-to-grave" management of Air Force aircraft, communications, armaments, cyber and other systems. Its major operating locations include Wright-Patterson; Hanscom AFB, Mass.; Eglin AFB, Fla.; Maxwell AFB's Gunter Annex, Ala.; and program offices at each of the air logistics complexes at Tinker AFB, Okla.; Robins AFB, Ga.; and Hill AFB, Utah.

It's not often that you get to be part of something new, Moore said, acknowledging the heritage of AFLCMC's predecessor organizations.

"There are tremendous opportunities for us as a new organization."

Who is the new guy?

To introduce himself, Moore revealed some personal details: He is from a small town in Washington state; is married and father to two children, with a son in the Air Force; has been commissioned for more than 32 years; has had seven previously assigned field acquisition duties, working at Aeronautical Systems Center, AFMC twice and the Pentagon three times.

Moore has more than 3,000 flight hours in 30 types of aircraft. Prior to assuming his current position, he was AFMC vice

commander.

AFMC mission, vision and priorities

AFLCMC is obviously part of a new organizational structure within AFMC, but the command's mission remains the same, Moore said: to deliver war-winning expeditionary capabilities to the warfighter.

He previewed the AFLCMC emblem which is a few weeks away from final release. In its current form, its design includes a golden globe on a field of blue, with an upright lance through its middle, representing AFLCMC's heritage of developing munitions, and a pair of electronic lightning bolts almost encircling it, symbolizing electronic systems, today very much so of the cyber realm. The stylized triangular aircraft-cradled at the top of the lightning bolts and lance represents the aircraft systems AFLCMC manages. All are tied together in an integrated way to underscore "24/7, on time, on cost, with war-winning capabilities to the warfighter."

Strategic plan is in development stage

A strategic plan for AFLCMC is being built around the center's draft objectives:

- Acquire innovative and supportable warfighter solutions;
- Meet urgent operational needs through rapid materiel solutions;
- Deliver cost-effective, on-time solutions to U.S. and international partners;
- Implement product support, planning and governance to balance resources, priorities and mandates;
- Strengthen workforce skill base across the AFLCMC enterprise;
- Continue focus on improvement of processes and internal controls.

"The onus is on us now to determine those specific objectives and measures that are going to show us we are making progress, to do our job more effectively and efficiently," Moore said.

Thoughts on rules of engagement

He confided that the organization was not perfect on Day 1; there is still work to do.

"I promise you, the planning



Lt. Gen. C.D. Moore II, inaugural commander of the new Air Force Life Cycle Management Center, shares thoughts, themes, goals and challenges during a town hall meeting Aug. 1 at the Air Force Institute of Technology's Kenney Hall. (U.S. Air Force photo/Niki Jahns)

process going forward -- that we used over the last year -- will continue."

Establishing the right set of enterprise-level metrics to ensure the organization is meeting major command goals and priorities and user expectations will be important. Most important will be building teams that think and act beyond geographical boundaries to act with enterprise-level responsibility, the general said.

Well-defined metrics and leading indicators help to "ensure we are doing the right thing" for the warfighter and taxpaying customers, Moore said.

Growing a skilled, trained workforce will be extremely important, and staffing adjustments will be necessary. Most communication will be conducted through directorate and functional leaders and other direct reports, with the chain of command used for normal, day-to-day operations.

Unity will be fundamental to the new center's success.

"As we are getting ready to roll out the new five-center construct, one integrated team is absolutely essential. When we are successful, it's because we did that right," Moore said.

AFLCMC themes

He touched on the "why" of performing the AFLCMC mission.

"What we do is important. I tell folks the reason I've been wearing the uniform for 36 years [since entering the Academy] is I believe that. When I don't believe it anymore, I'll hang up

the uniform. What you do is so, so important for our nation, and for the warfighter. I thank you for what you do every day."

Several slides were used to show AFLCMC's organization; a snapshot of program executive officers, other directorates and key support organizations; and a map indicating the center's various 75 locations, satellite offices and other locations with AFLCMC representation.

The key challenges

Key challenges Moore highlighted are: meeting mission requirements in a resource-constrained environment, with or without sequestration (resulting in DOD budget cuts); being postured to adjust to reductions; a rapidly changing world, with growing asymmetric threats, and the need to be innovative and responsive in delivery of integrated, cross-portfolio solutions.

"I am absolutely confident that working with all those who are involved in managing and supporting weapons systems that we can do the right thing, that we can set up the right processes to ensure mission success," Moore said.

Regrowing the culture of life cycle management is essential.

"That's where I think we have some new challenges," he said.

Expectations and vision

Open communication, keeping leadership informed to avoid surprises, process discipline and forging teams to build trust and understanding to break down barriers were among the ex-

pectations Moore articulated. Accompanying this was a call to take care of people and a foundation of integrity to always do the right thing.

After outlining his expectations and vision for the organization, Moore concluded that AFLCMC is now one integrated team focused on a core mission of program management and product support. The new structure offers amazing advantages and potential to improve support for the warfighter, he said.

A brief question and answer session ended the town hall. Questions ranged from sequestration/budget reductions and process standardization to referring to other AFLCMC locations as "Team Hanscom," or "Team Eglin."

"We're not holding onto 'legacy' names because we have to forge a new integrated team and create a culture around AFLCMC," he said. "It's time for folks to embrace the fact that some of these legacy organizations are now part of the greater whole."

Moore thanked the audience for its support.

"I am so thrilled to be back. This is just such a unique opportunity for all of us to help build an organization from the bottom up.

"How good can you make it? It's a clean sheet," he said. "It takes courageous and bold leadership to say, 'Let's try something new and different. Let's break down some of those process barriers and let's embrace what somebody else does as the best practice.' This is exciting."

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protocol Router Network, or NIPRNet, users locally. The change will consolidate the servers at Wright-Patterson AFB, increase potential users to 190,000, and allow the regional processing centers at Robins AFB, Tinker AFB and Hill AFB to be decommissioned.

"It also will allow a better success rate if information needs to be recovered," Ervin-Cook said.

The financial savings from the consolidation is in direct compliance with the Federal Data Center Consolidation Initiative and also connects to the need of the Department of Defense to find information technology efficiencies endorsed by the DOD chief

information officer.

A small select team from the Air Force Life Cycle Management Center Cyber Infrastructure Division here at Hanscom AFB put out three requests for information beginning in September 2011 and had multiple interactions with industry experts to pursue the latest technology and leverage data center design best practices. The market research ensured the team could develop a solid technical requirements document.

In February 2012, the team put out a request for quotation and had a strong response from multiple vendors. The vendors said they were impressed with the clarity of the RFQ.

The team narrowed the responses down to ensure they could get the best solution and, when they looked at the technical responses, they realized they could acquire what was considered the "Cadillac" data center solution, Ervin-Cook said.

By April, a contract was in place. The installation, training and testing was completed in July.

The 83rd Network Operations Squadron Detachment 3 at Wright-Patterson AFB was able to assist and, working with the team and the contractor, they received training on the new hardware and are now ready to assume "touch maintenance" when the equipment is fully operational.

"The teams all worked together great, and we had strong leadership support, which allowed this to rapidly progress," Ervin-Cook said.

The new area processing center will be state-of-the-art and leverage virtualization.

"It will reduce the number of servers, providing a smaller footprint, and also improve storage and the speed of transferring data," Ervin-Cook said. "We are looking at a 50 percent energy and power use reduction."

Having the team from the Cyber Integration Division become the "owner" of the center allows for standard configuration control, asset management and data man-

agement.

"Now all the data, the licensing, the hardware and software will be controlled and managed for the Wright Patterson APC," she said.

From here, the team is waiting for the Air Force Network Integration Center to do core service migration into the AFNet, and then operational and acceptance testing will be conducted. Once that is complete, the system will be at full operational capability which should occur within the next year.

"This is a true success story," Ervin-Cook said. "For the standard user, hopefully all the changes will be seamless and the only difference they will see is an improvement in their core services."

EOD tech school revamps fitness program for 'tactical' athletes

By Dan Hawkins
82nd Training Wing Public Affairs

EGLIN AIR FORCE BASE, Fla.(AFNS) – Physical fitness workouts for Air Force explosive ordnance disposal (EOD) candidates now have a battlefield twist at Naval School Explosive Ordnance Disposal (NAVSCOLEOD), as the 366th Training Squadron Field Training Detachment 3 here has revamped their fitness program to turn Airmen into “tactical” athletes.

Air Force EOD operations have changed significantly during the recent conflicts in Iraq and Afghanistan as the need for a more robust and joint operational capability increased, going from a primarily airbase response to full spectrum combat operations in physically demanding and non-permissive environments.

“Over the last 10 years, the Air Force EOD program has evolved,” said Chief Master Sgt. Al Schneider, 366th Training Squadron Detachment 3 superintendent. “We have operators on the ground, we support special operations forces, we support Marines...we need to be physically fit so we’re not a detriment to the mission. When we’re out there on the ground with whatever force we’re supporting, we’re an asset. We have the EOD capability, but if we can’t take the capability from point A to point B, the mission fails.”

Career field leaders recognized the need for Airman

to be able to physically endure the many hardships they will encounter in the field.

After collaboration with Air Education and Training Command, the Physical Ability and Stamina Test (P.A.S.T.) was implemented to raise the fitness level of EOD candidates. The P.A.S.T. is also used by other battlefield Airmen career fields such as para-rescue and combat control.

Passing the P.A.S.T. is now a prerequisite at the recruiting stations and also at the Air Force’s EOD preliminary course at Sheppard Air Force Base, Texas.

With the more demanding fitness requirement in place, it became clear to the technical training community a more rigorous fitness program was needed to meet the demands placed on graduates once they made it to the field.

“Putting the P.A.S.T. into our operations was a great first step,” said Lt. Col. Jerry Sanchez, 366th TRS Detachment 3 commander.

“But it really was just the beginning of our fitness revolution.”

Wanting to go further to improve physical fitness training, Air Force Special Operations Command EOD, in conjunction with the Hurlburt Air Force Base (Fla.) Health and Wellness Center, designed a career field specific fitness test called the T.O.P.E., or Task



Airmen from the 366th Training Squadron Field Training Detachment 3 at Eglin Air Force Base, Fla., complete box jumps during Battlefield Survivability through Physical Fitness training July 19, 2012. The revamped fitness program was instituted in January of 2012 to help Airmen at Naval School Explosive Ordnance Disposal get prepared for the physical rigors of the EOD career field. (U.S. Air Force photo/Dan Hawkins)

Orientated Physical Evaluation.

The T.O.P.E. is a repeatable test simulating tasks EOD technicians will encounter in a deployed setting. The test consists of a 1.5 mile ruck march (with 50 pounds), simulated robot lift (50 pounds and four repetitions), a six-foot wall scale, a jerry-can run (with two cans) and finishing with a second 1.5 mile ruck march (with 50 pounds).

Although not currently in the EOD Career Field Education and Training Plan (CFETP), the intent is to include the T.O.P.E. test in the CFETP in the future to help ensure all technicians stay in the physical shape necessary to meet mission requirements.

With the writing on the wall, it was clear to the Detachment 3 staff they needed to ramp up the intensity of physical training at NAVSCOLEOD for the

candidates. The question was how.

“We found career field-wide the need for a battlefield mentality in physical training,” said Staff Sgt. Aaron Cantu, 366th TRS Detachment 3 EOD instructor. “To meet the demands of the battlefield, we developed a new PT program.”

Enter the “Battlefield Survivability through Physical Fitness” program.

Developed in October of 2011, through a joint collaboration with Ben Gleason, former 96th Force Support Squadron exercise physiologist, and 366th TRS Detachment 3 instructors Tech. Sgt. Layne Mayerstein and Staff Sgts. David Flowers and Michael Turner, the program emphasizes weightlifting mechanics, increased strength, power and agility.

“What we want to do here is when they first get to their duty station, physically

and emotionally, we want a full-up (EOD technician),” Schneider said. “If they did have to deploy the next day they would be ready to go.”

Although the Battlefield Survivability through Physical Fitness program is not designed around the P.A.S.T. or T.O.P.E. fitness tests, the focus of the program is on developing tactical athletes who can complete mission-specific tasks.

With workouts concentrated on particular areas of the body and increasing in intensity as the program progresses, including power-lifting in the final phase, raising the fitness and confidence levels of the candidates is a primary focus.

“Our main goal for the students is to prepare them for going downrange,” Turner said. “We want to make them physically fit, not only in body, but psychologically as well.”

The four-phase program is designed to last eight months corresponding with students’ progression through NAVSCOLEOD, with physical training five days a week. Each phase of the program is eight weeks in duration.

“It’s a crawl, run, walk approach,” Sanchez said. “It’s part of an overall training plan...I want our graduates to go out to the field and be the subject matter experts when it comes to physical fitness.”

In the future, the plan is to use the T.O.P.E. as a metric and another validation tool for the Battlefield Survivability through Physical Fitness program at NAVSCOLEOD.

Although the program is overseen by the detachment staff, the beauty of the program is it is led and executed by students, pro-

See **TRAINING**, page 15

CMSAF discusses issues with 21st century Airmen

By Tech Sgt. Benjamin Rojek
Air Force News Service

WASHINGTON (AFNS) – During recent visits to Air Force bases across the nation, Chief Master Sgt. of the Air Force James A. Roy discussed issues ranging from AEF Next to resiliency to developing 21st century Airmen.

Air Force leaders must ensure future enlisted leaders are skilled in things like leadership and communication - the institutional competencies that are essential to any career, Roy said. Within this year, leaders are going to start transforming enlisted professional military education.

“The future is now,” he said.

Roy added that there are plans to reduce the average 10-year gap between Airman Leadership School and the NCO Academy.

“What we have found over the past few years is there’s a huge gap in our enlisted professional military education,” he said. “That time frame is very important for Airmen because that’s the time in which they find themselves supervising others.”

These issues led to the development of the evolution of enlisted professional military education, “EPME Next.” The goal of the program is to provide development at an earlier stage in an Airman’s career to better meet the Air Force mission requirements of the future, he said.

“We need to continue focusing on training and get as much as we can out of every dime we put into training and exercises,” the chief added. “We have to take advantage of every education opportunity because they are not going to

be abundant. The experience pieces won’t be the same in the future and we have to continue to look at how we provide those experiences to our Airmen.”

He also stressed the important roles NCOs and senior NCOs play in shaping junior enlisted Airmen into future leaders, and said training is only one piece of that responsibility. One major issue on which leaders must focus is face-to-face communication. Airmen at all levels too often rely on electronic devices instead of talking face-to-face and engaging in analog communication with people.

“Our Airmen today are the most highly skilled, trained, equipped and educated we have ever had in Air Force history,” he said. “We are also the most technologically advanced Air Force in the world and have got to continue down that path.

“We just have to understand that nothing can replace face-to-face interaction when it comes to supervising Airmen,” he said. “Not now, and not in the future. ... Supervisors ought to be engaged with the Airmen they supervise and know their stories.”

Communication and interpersonal skills are also vital to issues like resiliency. However, Air Force leaders have to be careful to not over use that term, Roy said.

“We don’t want it to be another program; we want it to be a culture,” he said.

Resiliency is about knowing how to work through a very difficult situation, growing through it and using the experience to help others, Roy said.



Chief Master Sgt. of the Air Force James A. Roy speaks to Airmen Leadership School students July 30 at Scott Air Force Base, Ill. Roy told the Airmen how important the transition is to becoming a leader in today’s Air Force. (U.S. Air Force photo/Airman 1st Class Jaeda Waffer)

The end-goal is for Airmen and their families to have the ability to work through difficult situations.

“The Air Force has to spend a lot of time and effort on this because people matter – and not just Airmen and service members – but their families as well,” the chief said. “Families have to be resilient; we have to keep providing those resources so they can be.”

Roy encouraged Airmen to maintain a resilient attitude, not only as Airmen but at home with family members. He said he believes equipping Airmen with the right coping skills could prevent suicide.

“We need to work through this,” he said. “Suicide is a problem because human life matters; that’s why we are so concerned about it. Airmen matter to us, their families matter to

us and their lives certainly matter to their families.”

As part of developing resilient Airmen, the Air Force has made some changes to the air expeditionary force system. “AEF Next” will not change the entire system, but it will refine the current way the Air Force does deployments, Roy said. It will give Airmen the ability to communicate within the joint community and the ability to deploy with leaders and teams with whom they have trained.

While the Air Force is shaping to best meet its mission requirements, Roy

emphasized a commitment to efficiently and effectively utilize the resources the Air Force does have. He said that the nation’s fiscal challenges will affect the Department of Defense.

“Some of the things that will certainly affect how we do things in the future are the budgets,” Roy said. “As our nation goes through its crisis and budgetary constraints, we are going to have to look at those tasks that we do and whether they have mission value. Does the mission really require that task to be done? If not, we really need to seriously examine how we do that

task and look at the fact that some of the resources for developing Airmen may not be there.”

No matter what the future holds for the Air Force, Roy said he has faith that Airmen will continue to adhere to the service’s core values.

“It’s not about just knowing the core values, it’s about living them,” he said. “Our joint and coalition partners rely on us to give them the absolute best, and our Airmen are up to those challenges because we are a professional force and the best Air Force in the world.”

NASIC Airman spreads message on motorcycle safety gear

By Staff Sgt. Veronica Pierce

National Air and Space Intelligence Center Public Affairs

WRIGHT-PATTERSON AIR FORCE BASE, Ohio – Senior Airman David Steele stood on stage in front of his fellow Airmen from the National Air and Space Intelligence Center here recounting his story during a recent commander's call.

"According to the doctors, the crash would have killed me had I not been wearing my gear," he said.

In June 2011, Steele was heading to Baltimore, Md., on a 500-mile motorcycle journey to visit his family. He stopped every few hours to stretch and update his

aunt and uncle in Baltimore on his whereabouts.

Nearly half way into the trip his bike ran off a turn and crashed into a boulder on Highway 50 in West Virginia.

Steele's recollection of the accident is hazy.

"I don't remember why I ran off the road, just that it was a blind corner," he said. "The authorities could only speculate what may have happened."

Steele remembers lying on the ground in shock, not knowing how he got there. He looked up and saw a man was standing over him.

When he asked the stranger what happened, the man told Steele he was in a motorcycle accident.

A medical evacuation helicopter flew Steele to Ruby Memorial Hospital in Morgantown, W. Va. The in-flight medical team stabilized Steele with 25 units of blood and plasma.

During the nine-minute flight he gave emergency crews his social security number and his family's contact information.

At the hospital doctors saw the full extent of his injuries. Besides a broken hand and jaw, the motorcycle brake lever punctured Steele's spleen resulting in

the majority of the blood loss. The spleen was removed. He spent 19 days in the hospital.

Doctors told Steele his protective gear limited the damage to his other internal organs, which enabled him to survive.

A year before the accident Steele took all the mandatory precautionary measures before riding his motorcycle. He took the mandatory motorcycle safety courses and purchased all the required safety gear.

"You can do everything right on your motorcycle and still crash, because someone didn't check their blind spot or use a turn sig-

nal," Steele said. "You don't have a seatbelt, an airbag or a crumple zone to protect you. Your only protection is what you're wearing. And that's why motorcycle safety gear is so important."

Following a year of recovery, Steele's life and Air Force career are back on track. He's persevered to score a 90 percent on his most recent Physical Fitness Test.

Asked if he would still ride motorcycles, he says he'll purchase a new bike soon.

Steele is the Air Force Intelligence, Surveillance and Reconnaissance Agency representative for the 2012

Airmen-to-Airman Safety Advisory Program. The Air Force Safety Center initiative features major command-nominated enlisted and officers.

The Airmen, all 20-26 years old, each have had a mishap and are turning their careers around for the better. Their mission is to communicate safety messages Air Force-wide.

Steele speaks to fellow Wingmen about the dangers of motorcycle riding and the importance of being prepared.

His bottom line message? "Crashing a motorcycle is just a matter of time. Always wear your gear."

AF seeks nominees for AFA's 2013 outstanding civilians

By Gloria Kwizera

Air Force Personnel Center Public Affairs

JOINT BASE SAN ANTONIO - RANDOLPH, Texas (AFNS) – Air Force officials are soliciting nominations for the 2013 Air Force Association Outstanding Air Force Civilian Employees of the Year Award.

Each year, the AFA recognizes Air Force civilian employees for outstanding achievement in four categories:

- Civilian Wage Employee (all Federal Wage System employees)

- Civilian Program Specialist (GS-1 through GS-11 or equivalent National Security Personnel System pay bands)

- Civilian Program Manager (GS-12 and GS-13 or equivalent NSPS pay bands)

- Civilian Senior Program Manager (GS-14 and GS-15 or equivalent NSPS pay bands)

Organizations and base-level personnel must contact their major command, field operating agency or direct reporting unit for applicable suspense dates and additional information regarding nomination procedures.

Each MAJCOM, FOA and DRU may nominate one person for each category.

Completed nomination packages are due to the Air Force Personnel Center by Jan. 9, 2013.

For more information on Air Force recognition programs and other personnel issues, visit the myPers website at <http://mypers.af.mil>.

Feeding the Warthogs



An A-10 Thunderbolt II decelerates as it prepares for an aerial refueling with a KC-135 Stratotanker over the Whiteman Air Force Base, Mo., Aug. 4, 2012. The refueling between 442nd Fighter Wing and 434th Air Refueling Wing aircraft was more than training; it was also a chance for the dozens of civilians on board the KC-135 to get a first-hand glimpse of what the Air Force does. (U.S. Air Force photo/Senior Airman Cody H. Ramirez)

TRAINING from page 11

viding opportunities for candidates to be leaders.

“(PT) is led by the student leaders,” Cantu said. “It’s a great leadership evolution... fellow Airmen trying to push each other to make everyone better.”

Using data taken from P.A.S.T. tests administered throughout the NAVSCOLEOD course, the program is showing that candidates are leaving in much better shape than when they arrived.

“We found out it’s working from the Airmen themselves,” Turner said. “We show a huge increase between phase one and phase two, not only in run time, but push-ups, sit-ups and pull-ups.”

From the testimonials of

Airmen in the program, it’s clear the results have been positive.

“When I first got here, (PT) was only three days a week,” said Senior Airman James Ruiz, EOD candidate. “They teach you the basics when you first get here... how to stretch, workout, lift. It definitely gets you ready for the physical aspect of the job.”

“I’ve seen a lot of improvement since I got here,” said Airman 1st Class Kristen Fay, an EOD candidate who has doubled her pull-up reps since arriving at NAVSCOLEOD five months ago. “We like to have competitions in our group...it promotes teamwork and it’s a lot of fun.”

The tangible benefits

include a healthier force overall.

“We’re the only squadron in Air Education and Training Command to have a physical fitness score average of 90 or above and no medical profiles,” Cantu said. “Everybody leaving here is in much better shape and ready to handle the physical stressors and day-to-day grind of a deployment.”

The 366th Training Squadron Field Training Detachment 3 is part of the 782nd Training Group at Sheppard Air Force Base, Texas, which conducts technical training in telecommunications, aircraft systems, avionics, civil engineering, fuels and vehicle operations for over 13,000 students.

Outstanding Airmen of the Year named

By Gloria Kwizera

Air Force Personnel Center Public Affairs

JOINT BASE SAN ANTONIO - RANDOLPH, Texas (AFNS) – Air Force officials selected the service’s top enlisted members, naming the 12 Outstanding Airmen of the Year for 2012, Air Force Personnel Center officials announced.

An Air Force selection board at the Air Force Personnel Center considered 35 nominees who represented major commands; direct reporting units, field operating agencies and Headquarters Air Force.

The board selected 12 Airmen based on superior leadership, job performance and personal achievements.

12 Outstanding Airmen of the Year (by command of assignment when selected):

Staff Sgt. Angelo C. Banks, Air Education and Training Command

Master Sgt. Alan M. Braden, Air Force Materiel Command

Staff Sgt. Cory T. Branham, Air Combat Command

Senior Airman Bryenna L. Brooks, Air Force Global Strike Command

Tech. Sgt. Brandon C. Bruner, Air Force Special Operations Command

Senior Airman Matthew J. Butler, Air Force District of Washington

Senior Master Sgt. Lau-

ra A. Callaway, Air Mobility Command

Senior Master Sgt. Emilio Hernandez, U.S. Air Forces in Europe

Senior Airman Nicholas A. Hurt, Air Force Space Command

Master Sgt. Sandra L. Plentzas, Air Force Reserve Command

Tech. Sgt. Matthew G. Stark, Pacific Air Forces

Senior Master Sgt. Luke W. Thompson, Air National Guard

The winners are authorized to wear the Outstanding Airman of the Year Ribbon with the bronze service star device on the ribbon. They are also authorized to wear the Outstanding Airman of the Year Badge for one year.

Arnold Golf Course
454-GOLF, 454-FOOD

Check us out on Facebook! Arnold AFB Services Golf Course

Tuesday-Thursday Special: \$10 green fee for unlimited golf. Cart fee not included.

Sausage and biscuits available in the Pro Shop Monday through Friday. If you have an early golf outing during the week, grab a quick breakfast before you start. These sausage and biscuits are from the Mulligan's Coffee Bar & Grill menu, prepared in advance and placed in the warmer in the Pro Shop for your convenience. The biscuits are \$2 each and coffee is also available. The grill opens at 10:30 a.m. during the week and serves a full breakfast on Saturday and Sunday starting at 8 a.m. The Pro Shop will have the sausage and biscuits available starting at 7 a.m. Monday through Friday but limited quantities will be available, so get them while they last.

Arnold Lakeside Center
454-3350

Check us out on Facebook! Arnold AFB Services Arnold Lakeside Center and Arnold AFB Services Information, Tickets and Travel

First Friday Jam will be Sept. 7 beginning at 6 p.m. This month will be an unplugged version. We can mic your acoustic or acoustic-electric guitars, keyboards, horns, fiddles, etc. but we would like to do the evening much like unplugged events you've seen on television. If you want to join the jam, send an email to jim.jolliffe@hotmail.com. As always, we welcome anyone to join with the band to play an instrument or sing. Or you may take over and do your own performance. We invite all to come listen, dance and enjoy.

Weekend dining room specials (all include two sides and salad bar):

All specials and times are subject to change without notice. Please call ahead to ensure availability and openings.

Friday 4-9 p.m.

Sept. 7: Baked potato bar w/salad bar, \$9.95 member, \$11.95 nonmember.

Sept. 14: Country fried chicken, \$8.95 member, \$10.95 nonmember.

Sept. 21: Prime rib for two, \$29.95 member, \$31.95 nonmember.

Sept. 28: Shrimp alfredo, \$9.95 member, \$11.95 nonmember.

Saturday 5-9 p.m.

Express Menu only every Saturday.

Last Friday Trivia Contest is 6:30 p.m. Sept. 28 with an entertainment theme of art, stage, television and movies. Teams may have up to four people. No cell phones are permitted during the event. Anyone using a phone while a question is underway will be disqualified. There are eight rounds with three questions per round. Each round teams have two, four and six points to wager before the question. Only one points value may be used per question. For example, if you wager four points on the first question then you must choose either two or six points for the next question. Whichever value is left must be used for the final question in that round. After the eighth round, teams may wager up to their total points earned for the final question. Prizes are awarded for top finishers.

The annual **Chili Cookoff** has been set for Oct. 12 behind Arnold Lakeside Center (ALC) beginning any time after 10 a.m. Chili must be ready to present to judges by 4:45 p.m. with judging at 5 p.m. Teams entering the event will need to provide all of their own supplies to start, cook and complete their chili entry and plan to make enough to provide samples as well as a batch for final judging. Teams need to be self sufficient and make all necessary arrangements for electrical (if required), tables, chairs, utensils, containers, ingredients, etc. The ALC will provide supplies for the judges and for the attending personnel not affiliated with a team to judge for people's choice. Any ties of any kind will be decided by public coin toss. Power may not be available to contestants so teams need to plan accordingly. Eight-

Youth Programs events moved to Community Center

Due to decreased usage patterns, Youth Programs family activities are being realigned under the Community Center.

A lot of the family programming such as the Kids Fishing Derby, Easter Egg Hunt, Daddy Daughter Dance, and Miss AEDC Pageant will be incorporated into the Community Center under Arnold

Lakeside Center.

Melissa Hester will be handling these programs and may be reached at 454-3303.

We apologize for any inconvenience but hope you will continue to participate in the programs made available through the Community Center.



Book Fair coming to Café 100 Sept. 6

Books Are Fun is back for a book fair 9:30 a.m.-3 p.m. Sept. 6 in the A&E Building's Café 100, room C102. Discounted selections include paperbacks, best sellers, educational, reference, cookbooks, children's items, gift selections and more. Save up to 70 percent off retail prices.

Paintball returns in September

Paintball took a break during the hot months but is now back with only a few changes. All paintball programs are for ages 10 and older. Ages 10-17 must have a parent permission form. Remember to wear appropriate clothing - long pants, a long-sleeved shirt and closed toe shoes - as paintballs fly at 300 feet per second and can sting and possibly leave a mark other than paint.

Regular Saturday play is 9:30 a.m.-2:30 p.m. every weekend except third Saturdays due to monthly tournaments. Those interested need to call and sign up at least a day ahead of time to ensure equipment availability. When the day arrives, simply meet at the paintball field and get play underway with the direction of an Outdoor Rec (ODR) staff member. Cost is \$35 per person with equipment provided and in-

See **PAINTBALL**, page H2



Hula Pole-ooza Luau, Fishing Derby set for Sept. 22 at ALC beach

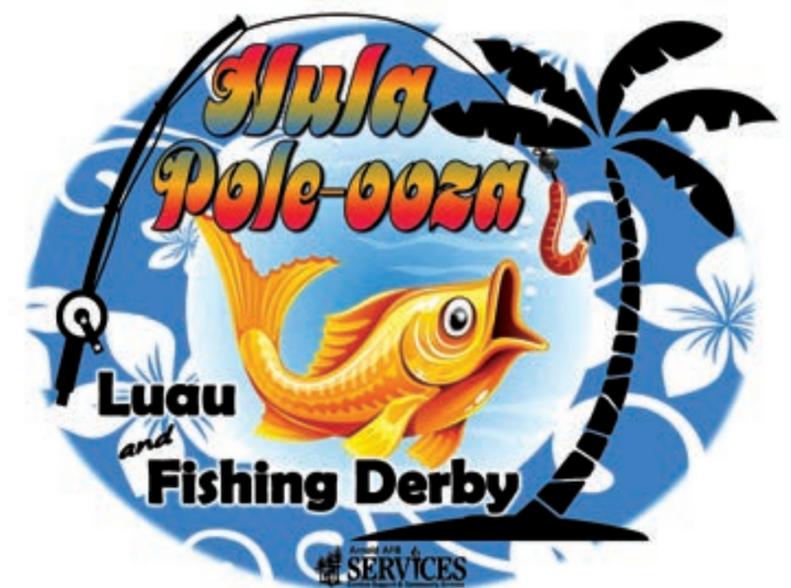
Services Community Center, Club and Outdoor Recreation have joined together to bring you Hula Pole-ooza, a fun-filled event for children and adults.

Things get underway Sept. 22 at 2 p.m. with a Fishing Derby for ages 5-15. This portion of the event is free but registration is required. The first 25 to register at 454-3303 will receive a rod and reel. The first 50 to register will receive an event T-shirt. There will be four age groups (5-7, 8-10, 11-12, 13-15) with prizes awarded in each along with overall prizes for longest and largest fish.

Prizes in each age group are based on total length of fish caught. Fishing will be done from the ALC beach shoreline using any bait or lure. Fishing will begin at 2 p.m., so be sure to arrive early for check in. Fishing will conclude at 3:45 p.m. and awards will be presented at 4 p.m.

Outdoor Recreation will have a rocket bounce house, inflatable basketball game, cornhole, volleyball, team building games, kayaks and canoes on hand for all to enjoy from 4-6 p.m.

Arnold Lakeside Center will kick off the luau at 5:30 p.m. with dinner at 6 p.m. in the beach pavilion. Reservations are



required by Sept. 14 for dinner. The menu will include Huli Huli chicken, pulled pork, grilled tilapia with papaya relish, fried rice, Polynesian grilled vegetables and aloha sweet potatoes. Cost is \$17 for members and \$19 for nonmembers. A kids' menu will also be available including hamburgers, hot dogs, chips and cookie for \$6.95. Dessert

will be cupcakes in honor of the Air Force's birthday (Sept. 18).

The luau will have beach games, luau band, hula dancers and tropical bar. Dig out your beach wear or favorite Hawaiian shirt and join us on the beach. Call 454-3303 to sign up for the fishing derby, make reservations for dinner or for more details.

Fitness Center Blood Pressure Screening in Café 100 Sept. 19

Not sure what your blood pressure level is or why it matters? The Fitness Center will be in Café 100 11 a.m.-12 p.m. Sept. 19 to conduct blood pressure screenings. High blood pressure usually has no symp-

oms but can lead to serious problems. You can control high blood pressure through healthy lifestyle habits and medication. This is a free assessment, and information on blood pressure along with other health

information will be available. Dr. Tessier from the Medical Aid Station will be on hand to help answer any questions. Stop by and see where your numbers fall and learn more about heart health.



Horizon is a Services Division publication designed to inform our customers of events and specials in Services Division activities. All program dates, times and prices are subject to change. Services Division mailing address is at 100 Kindel Drive, Suite C321, Arnold AFB, Tenn. 37389-3321

Services information written and provided by Tanya Heggard

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See **BRIEFS**, page H3

Services Division Phone Numbers

Area code 931 DSN 340
 Services Chief – 454-7779
 Services Deputy – 454-5915
 Community Services Flight Chief – 454-4062
 Complex Manager – 454-3367
 Arnold Lakeside Center (ALC) – 454-3350
 Arnold Lakeside Center catering – 454-3350
 Gossick Leadership Center – 454-4003

Hap's Pizza – 454-5555
 Café 100 – 454-5885
 Membership Information – 454-3367
 Information, Tickets & Travel – 454-3303
 Fitness Center (FC) – 454-6440
 Outdoor Recreation (ODR) – 454-6084
 includes Marina, FamCamp, Crockett Cove & Dogwood Ridge

Recycling – 454-6068
 Human Resources – 454-5481
 Marketing & Sponsorship – 454-3128
 Barber Shop – 454-6987
 Wingo Inn – 454-3051
 Golf Course (GC) – 454-GOLF (4653)
 Mulligan's Coffee Bar and Grill - 454-FOOD (3663)

September 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Café 100 now has WiFi!						1 ODR Kayaking Class, 9 a.m., \$10, 454-6084 ODR Paintball, 9:30 a.m., ages 10+, \$35, sign up 454-6084 ODR FamCamp lake boat tour, \$5, campers only, 10 a.m. ALC Express Menu only, 5-9 p.m.
2	3 FC Open 8 a.m. – 4 p.m., no classes ODR Open 8 a.m. – 6 p.m.	4 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	5 FC Boot Camp 6 a.m. FC Pilates 11 a.m.	6 ALC Book Fair, 9:30 a.m.-3 p.m. FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "Men in Black 3" PG-13 dinner 5-8 p.m. movie 6:30 p.m.	7 FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Baked Potato Bar w/salad bar, \$9.95 member, \$11.95 non, 4-9 p.m. ALC First Friday Jam Unplugged Version, 6:30 p.m.	8 ODR Archery Basics Class, 9 a.m., \$3, ages 10+, sign up, 454-6084 ODR Paintball, 9:30 a.m., ages 10+, \$35, sign up 454-6084 ODR Paintball Introductory Class, 2 p.m., \$10 ALC Express Menu only, 5-9 p.m.
9	10 FC Boot Camp 6 a.m. FC Cycling Class 11 a.m. FC Yoga 11 a.m.	11 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	12 FC Fall Fun Run, anytime during day at own pace on trail, 454-6440 FC Boot Camp 6 a.m. FC Pilates 11 a.m.	13 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "What to Expect When You're Expecting" PG-13 dinner 5-8 p.m. movie 6:30 p.m.	14 FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Country Fried Chicken, \$8.95 member, \$10.95 non, 4-9 p.m.	15 ODR Kayaking Class, 9 a.m., \$10, 454-6084 ODR Paintball Tournament, 10 a.m., ages 10+, \$55/team, sign up 454-6084 ALC Day Trip to Chattanooga, \$55, \$30 child, sign up by Sept. 12, 454-3303 ALC Express Menu only, 5-9 p.m. ODR FamCamp outdoor movie for campers, "The Hunger Games", 7:30 p.m.
16	17 FC Boot Camp 6 a.m. FC The Triple Threat lift event begins, 8 a.m.-4 p.m. Mon.-Fri., sign up 454-6440 FC Cycling Class 11 a.m. FC Yoga 11 a.m.	18 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	19 FC Boot Camp 6 a.m. FC Pilates 11 a.m. FC Blood Pressure Screening in Café 100, 11 a.m.-12 p.m.	20 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "Snow White and the Huntsman" PG-13 dinner 5-8 p.m. movie 6:30 p.m.	21 FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Prime Rib for Two, \$29.95 member, \$31.95 non, 4-9 p.m.	22 ODR Archery Basics Class, 9 a.m., \$3, ages 10+, sign up, 454-6084 ODR Paintball, 9:30 a.m., ages 10+, \$35, sign up 454-6084 ALC/ODR Hula Pole-oza Luau & Fishing Derby begins 2 p.m. dinner 6 p.m. \$17 mbr \$19 non \$6.95 kids 454-3303 ALC Express Menu only, 5-9 p.m.
23	24 FC Volleyball team info due FC Boot Camp 6 a.m. FC Cycling Class 11 a.m. FC Yoga 11 a.m.	25 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	26 FC Boot Camp 6 a.m. FC Pilates 11 a.m.	27 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "Madagascar 3: Europe's Most Wanted" PG dinner 5-8 p.m. movie 6:30 p.m.	28 FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Shrimp Alfredo, \$9.95 member, \$11.95 non, 4-9 p.m. ALC Trivia Night, 6:30 p.m. Entertainment theme	29 ODR Kayaking Class, 9 a.m., \$10, 454-6084 ODR Paintball, 9:30 a.m., ages 10+, \$35, sign up 454-6084 ODR FamCamp lake boat tour, \$5, campers only, 10 a.m. ALC Express Menu only, 5-9 p.m. ODR FamCamp outdoor movie for campers, "The Avengers", 7:30 p.m.

Hours of operation

Arnold Lakeside Center: Catering/Management offices by appointment. Cashier Monday through Friday 7 a.m.-3:30 p.m. Dinner: Arnold Express Menu or Hap's Pizza only Thursday 5-8 p.m., dinner or Arnold Express Menus and Hap's Pizza Friday 4-9 p.m. and Saturday 5-9 p.m.; Main Bar Thursday 5-8 p.m., Friday 3:30-10 p.m. and Saturday 5-10 p.m.; Social Hour Friday 4-6 p.m., Movie Night Thursday 6:30 p.m.

Information, Tickets & Travel (ITT): Tuesday through Friday 10 a.m.-3 p.m.

Café 100: Monday through Friday 6:30 a.m.-1:30 p.m. **Closed Sept. 3**

Barber Shop: by appointment – Monday, Tuesday, Thursday & Friday 8 a.m.-4 p.m. **Closed Sept. 3**

GLC: Monday through Friday 7 a.m.-3:30 p.m. May vary depending on bookings. **Closed Sept. 3**

Outdoor Rec: Tuesday through Sunday 8 a.m.-6 p.m. FamCamp Store: Friday through Sunday 12-4 p.m.

Fitness Center: Monday-Friday 5 a.m.-9 p.m.; Saturday 8 a.m.-4 p.m. **Open 8 a.m.-4 p.m. Sept. 3, no classes**

Arnold Golf Course: Pro Shop & Driving Range 7 a.m.-dusk. Driving Range open 24 hours with repurchased key card. Mulligan's Coffee Bar & Grill Monday through Friday 10:30 a.m.-2 p.m., Saturday and Sunday 8 a.m.-2 p.m.

Recycling: Monday through Friday 7 a.m.-4 p.m. **Closed Sept. 3**

Wingo Inn: Monday through Friday 7 a.m.-6 p.m., Saturday and Sunday 8 a.m.-4 p.m.

Nonappropriated Funds Human Resources: Monday through Friday 7:30 a.m.-4 p.m. **Closed Sept. 3**

BX/Commissary customer eligibility

AEDC government civilian and AEDC contractor employees have access to the following limited items at the base exchange (BX): consumable items including toiletries and over-the-counter pharmaceuticals, food items such as candy, chips, little meal items, hot dogs and soft drinks. Alcohol and cigarettes are not included as consumable items. However, only active duty and retired uniformed services personnel and their dependents are eligible to use the base commissary next to the BX. The commissary hours of operation: Tuesday, Wednesday and Friday 9 a.m.-5:30 p.m., Thursday 9 a.m.-6 p.m. and Saturday 8 a.m.-4:30 p.m. The BX hours of operation: Tuesday through Friday 9 a.m.-5:30 p.m., and Saturday 8 a.m.-4:30 p.m. For more information contact Chris Floden, BX manager, at (931) 454-7153 or Jeff Lillard, Commissary manager, at (931) 454-3545.

AAFES Dividends

Dividends generated from the Army and Air Force Exchange Service (AAFES) overall earnings are a major contributor to Services nonappropriated fund (NAF) construction and renovation projects as well as equipment purchases. Services would like to thank all AAFES customers for their support. Dividends received for July 2012 totaled \$7,749.92

PAINTBALL from H1

cludes 500 paintballs and a tank of air. It is \$20 per person for those with their own equipment and that also comes with 500 paintballs.

All paintballs used must be purchased from ODR for \$13 per bag of 500 or \$45 for a box of 2000.

Monthly tournaments are on the third

Saturday beginning at 10 a.m.

A few changes have been made to this program. Teams of four will now play double elimination to test your skills until the best team arises.

Prior to the tournament there will be a 25-minute warm up field time with team on team play.

There must be at least one team member above age 18, and there must be at least eight teams to hold the tournament.

ODR has 20 paintball guns available on a first come first served basis.

Indicate at time of registration if you will be using your own equipment or need to

reserve equipment.

Cost to enter the tournament is \$55 per team and includes a bag of 500 balls and air for the day for each team member.

The winning team will receive a free day of paintball (regular Saturday play) for all four team members valid for one year and includes equipment,

field fee, air for the day and bag of 500 balls.

Signup deadline for the tournament will be the Tuesday prior, and late registration/cancellation fees will be applied the Wednesday prior.

Those who participate in the Introductory Class will receive \$5 off the tournament

entry fee.

A Paintball Introductory Class will be held 2-5 p.m. Sept. 8 at the paintball field. This class is \$10 and is for beginners that want to know more about the game of paintball.

In this class you will learn about the parts of the gun and equipment used,

shooting your gun and overall playing technique.

A \$5 discount will be given toward the Paintball Tournament for those completing the Introductory Class.

Call 454-6084 for more information about the paintball program or to sign up for these events.

Briefs from H1

foot tables are available to rent from the ALC or Outdoor Rec (454-6084) for \$4 each and must be reserved in advance to guarantee availability. Costumes and booth decorations are encouraged but not required. Official rule sheets are available upon request. Cash prizes will be given for best tasting (\$200), best tasting runner-up (\$125), most unusual ingredient (\$75) and people's choice voted on by others in attendance (\$100 plus half of voting form sales). People's choice votes are \$3 per person for a voting form entry and includes napkins, cups and spoons for every booth entered in the competition. Call 454-3303 to register your team by Oct. 9.

Fitness Center
454-6440

Check us out on Facebook! Arnold AFB Services Fitness Center

The Fitness Center will be open 8 a.m.-4 p.m. Sept. 3 for the Labor Day holiday. There will be no classes that day.

Fall Fun Run is scheduled for Sept. 12 on the Fitness Center trail. Complete two laps anytime during the day at your own pace to complete the 3.5 mile course. The first 25 to sign up will receive an event T-shirt.

The Triple Threat event is scheduled for Sept. 17-21 between 8 a.m. and 4 p.m. each day. This is a lift event for men and women to perform three lifts while standing on the floor – shoulder press, deadlift and squat. The

combined total pounds of the three lifts will be added and that will be the participant's score. Top three scores for men and women will receive a T-shirt. Call to sign up or for more information.

Volleyball will begin Oct. 1. Team info is due Sept. 24. Call to sign up and for details.

The **running trail behind the Fitness Center** is now only accessible to badged employees. Recent base security measures have eliminated the use of running trail badges for Fitness Center customers. The turnstile connecting the Wattendorf entrance to the mission area may only be opened by swiping an AEDC security issued badge. We apologize for any inconvenience but must follow and maintain Force Protection Conditions.

Outdoor Rec (ODR) 454-6084

Check us out on Facebook! Arnold AFB Services Outdoor Recreation

Outdoor Rec will be open Sept. 3 so stop by and see if we have something for you! We will be open 8 a.m.-6 p.m. Come rent an inflatable for your home event, rent a boat and enjoy a ride on the lake or maybe you need to rent a grill, canopy or cornhole game for more home fun. Give us a call and let us help you with your Labor Day plans.

Basics of Lake Kayaking Class will be held 9 a.m.-1 p.m. Sept. 1, 15 and 29. This class will give you basics needed for kayaking on our brand

new sit-a-top kayaks. Learn how to sit properly in the kayak, how to do proper strokes, self- and assisted-rescue procedures, turning methods, proper entry into the kayak and more.

This training will help familiarize you with kayaking and give you the necessary tools to be safe and have fun.

Make sure you wear appropriate clothing and bring sunblock, because we will be getting in the lake during this class.

Participants may bring their own kayak if you have one. The class is scheduled for two hours (depending on the amount of participants and questions) and then we will take a tour of the lake.

This class is for ages 12 and up and cost is \$10 per person.

There must be at least three to hold the class and maximum class size is 10. Call to sign up two days prior to event.

Archery Basics Class will be Aug. 25, Sept. 8 and 22 for ages 10 and older. The class costs \$3 and will begin at 9 a.m. Deadline to sign up is three days before each class. There must be at least three to take the course and no more than 15. This class will teach the basics of archery to include how to hold a bow properly, how to shoot with correct technique and also learn some history. Bows, arrows and targets will be provided but you may bring your own equipment if you have it.

FamCamp boat tours offered. Fam-

Camp guests have added incentive to stay on select weekends to be able to go on lake tours. What better way to spend a couple of hours than on a lake tour of Woods Reservoir? For only \$5 per person, take a two hour ride around the 3,980-acre lake. While on the tour enjoy the scenery and wildlife as you hear stories of the lake and local area. Boat tours are available Aug. 19, Sept. 1 and 29 at 10 a.m.

FamCamp outdoor movie nights. FamCamp guests will be able to enjoy an outdoor movie for free beginning at 7:30 p.m. Aug. 25, Sept. 15 and Sept. 29. Bring your chairs or blankets to the open grass area behind the upper bathhouse. Aug. 25 will showcase the

new comedy fantasy "Dark Shadows," starring Johnny Depp and Michelle Pfeiffer. An imprisoned vampire, Barnabas Collins, is set free and returns to his ancestral home, where his dysfunctional descendants are in need of his protection. Sept. 15 will be "The Hunger Games," starring Jennifer Lawrence, Josh Hutcherson and Liam Hemsworth. Set in a future where the Capitol selects a boy and girl from the 12 districts to fight to the death on live television, Katniss Everdeen volunteers to take her younger sister's place for the latest match. Sept. 29 will be "The Avengers," starring Robert Downey Jr., Chris Evans and Scarlett Johansson. Nick Fury of S.H.I.E.L.D. brings together a team of super humans to

form The Avengers to help save the Earth from Loki and his army.

Wingo Inn
454-3051

Check us out on Facebook! Arnold AFB Services Wingo Inn

Reservations for Wingo Inn can be made 120 days in advance. Room rates start at \$39 per night. Please call 454-3051 for reservations.

Gossick Leadership Center
454-3024

Check us out on Facebook! Arnold AFB Services Gossick Leadership Center

September Movie Schedule

Movie nights are Thursdays with movie start time of 6:30 p.m. and dinner available from the Express or Pizza menus from 5-8 p.m.



Sept. 6 – "Men in Black 3," rated PG-13 (1 hr. 46 min.) starring Will Smith, Tommy Lee Jones and Josh Brolin.

Agent J travels in time to MIB's early years in the 1960s to stop an alien from assassinating his friend, Agent K, and changing history.

Sept. 13 – "What to Expect When You're Expecting," rated PG-13 (1 hr. 50 min.) starring Cameron Diaz, Jennifer Lopez, Elizabeth Banks, Brooklyn Decker, Anna Kendrick, Matthew Morrison, Dennis Quaid, Chris Rock, Chace Crawford, and Rodrigo Santoro.

A look at love through the eyes of five interconnected couples experiencing the thrills and surprises of having a baby, and ultimately coming to understand the universal truth that no matter what you plan for, life doesn't always deliver what's expected.

Sept. 20 – "Snow White and the Huntsman," rated PG-13 (2 hr. 7 min.) starring Kristen Stewart, Chris Hemsworth and Charlize Theron.

In a twist to the fairy tale, the Huntsman ordered to take Snow White into the woods to be killed winds up becoming her protector and mentor in a quest to vanquish the Evil Queen.

Sept. 27 – "Madagascar 3: Europe's Most Wanted," rated PG (1 hr. 33 min.) starring voices of Ben Stiller, Jada Pinkett Smith and Chris Rock.

Alex, Marty, Gloria and Melman are still fighting to get home to their beloved Big Apple. Their journey takes them through Europe where they find the perfect cover: a traveling circus, which they reinvent – Madagascar style.

Sept 6



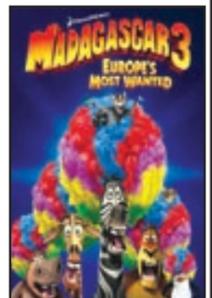
Sept 13



Sept 20



Sept 27



The Green Scene

brought to you by Services Recycling Program



Recycling Plastic Bottles

Select buildings have collection bins for #1 and #2 plastic bottles



#1 plastic refers to polyethylene terephthalate (PET)
– soda, water, cooking oil



#2 plastic refers to high density polyethylene (HDPE)
– milk, juice, detergent

When recycling plastic bottles it is best to remove the cap and empty the bottle first.

Caps may be tossed in regular trash bins.



Thank You from *The Green Team*
Robbie Evans (manager), Doug Richards, Matt Gluck
931-454-6068

